

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

CIG EXPLORATION, INC.

## 3. ADDRESS OF OPERATOR

P. O. BOX 749, DENVER, CO 80201

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

818' FSL &amp; 854' FWL, Section 30, T10S, R22E

At proposed prod. zone

SAME AS ABOVE

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

APPROXIMATELY 15 MILES SOUTHEAST OF OURAY, UTAH

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

38'

## 16. NO. OF ACRES IN LEASE

560

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.APPROXIMATELY  
6250'

## 19. PROPOSED DEPTH

5800'

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5379' UNGRADED GROUND

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	200'	125 sx
7-7/8"	4-1/2"	11.6#	5800'	CIRCULATE CEMENT BACK TO SURFACE

FRESH WATER AQUIFERS WILL BE PROTECTED WHEN THE LONG STRING IS RUN AND CEMENT IS  
CIRCULATED TO SURFACE.

SEE ATTACHED SUPPLEMENTS FOR FURTHER INFORMATION:

- (1) 10-POINT PROGRAM
- (2) BOP SCHEMATIC
- (3) 13-POINT PROGRAM
- (4) PLAT

State of Utah, Department of Natural Resources  
Division of Oil, Gas, and Mining  
1502 West North Temple  
Salt Lake City, Utah 84116

GAS WELL PRODUCTION HOOKUP TO FOLLOW ON SUNDRY NOTICE.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

E. R. MIDKIFF

TITLE

DISTRICT SUPERINTENDENT

DATE October 31, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

ACTING DISTRICT ENGINEER

DATE

DEC 13 1978

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPYNECESSARY FLARING OF GAS DURING DRILLING AND  
COMPLETION APPROVED SUBJECT TO ROYALTY (NTL 4)

\*See Instructions On Reverse Side

State Oil &amp; Gas

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
CIG EXPLORATION, INC. #CIGE 54-30-10-02	818' FSL & 854' FWL (SW $\frac{1}{4}$ SW $\frac{1}{4}$ ) SEC. 30 T. 10 S., R. 22 E. JUNTAH COUNTY, UTAH GLEI. 5379'	U-0132568-A
<p>1. Stratigraphy and Potential Oil and Gas Horizons. The well will commence in the Junta Formation and gas is anticipated in the Wasatch Formation. Numerous wells have been drilled in this township so control is good. Estimated tops by the operator are reasonable.</p> <p>2. Fresh Water Sands. Fresh water may be found to depths of about 500 feet. Usable water may be found to depths of about 3,500 feet in the Green River Formation. Deeper aquifers contain saline water or brine.</p> <p>3. Other Mineral Bearing Formations. Valuable prospectively for solid (Coal, Oil Shale, Potash, Etc.) and semi-solid bitumens (Gilsonite). Within oil shale withdrawn E.O. 5327. The Parachute Creek member of the Green River Formation contains beds of oil shale which should be identified and protected. The richest oil shale beds occur in the mahogany zone. The top of the mahogany zone may occur at about 1700 ± feet.</p> <p>4. Possible Lost Circulation Zones. Site is underlain by at least a Lenticular sands of 72 foot oil-shale sequence that would yield an average of 25 gallons of oil per ton.</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Protect any fresh water aquifers penetrated.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Operator does not anticipate abnormal temperatures, pressures or hydrogen sulfide gas.</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Probably adequate.</p> <p>8. Additional Logs or Samples Needed. None. Logs proposed by the operator should be run through the Parachute Creek member of the Green River Formation to delineate oil shale beds.</p> <p>9. References and Remarks Within 2 mile radius of KGS. U.S.G.S. Map I-736 by Cashion.</p>		
Date: 11/21/78	Signed: R.E.G.	

United States Department of the Interior  
Geological Survey  
8440 Federal Building  
Salt Lake City, Utah 84138

## Usual Environmental Analysis

Lease No. U-0132568-AOperator CIG Exploration Inc.Well No. CIGE 54-30-10-22Location 818 FSL and 854 FWL Sec. 30 T. 10S R. 22ECounty Uintah State Utah Field Bitter CreekStatus: Surface Ownership BLM Minerals FederalJoint Field Inspection Date November 15, 1978

## Participants and Organizations:

James MitchellU.S. Geological SurveySteve EllisBureau of Land ManagementCory BodmanBureau of Land ManagementFloyd MurrayDirt ContractorDon ShullCIG Exploration Inc.

## Related Environmental Analyses and References:

(1) Seep Ridge Planning Unit, BLM. Vernal

(2)

Pad 145 x 375.  
Pit 100 x 50.  
1 1/2 mi new access  
Stickpile top soil  
1.6 cc

Analysis Prepared by: James P. Mitchell      Reviewed by: George Diwachak  
Environmental Scientist      Environmental Scientist  
Billing District TDY Salt Lake City      Salt Lake City, Utah

Date November 16, 1978

Noted - G. Diwachak

Proposed Action:

On November 1, 1978, CIG Exploration Inc. filed an Application for Permit to Drill the No. 54-30-10-22 development well, a 5800-foot gas test of the Wasatch formation; located at an elevation of 5379 ft. in the SESW section 30 T10S R.22E on Federal mineral lands and Bureau of Land Management surface; Lease No. U-0132568-A. There was no objection raised to the wellsite nor the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventer would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah, and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 195 ft. wide x 375 ft. long, and a reserve pit 100 ft. wide x 50 ft. long. A new access road will be constructed 18 ft. wide x 1½ miles long. The operator proposes to construct production facilities on a disturbed area of the proposed drill pad. If production is established, plans for a gas flow line have been submitted to the appropriate agencies for approval. The anticipated starting date is January 15, 1978, and duration of drilling activities would be about 17 days.

Location and Natural Setting:

Location:

The proposed drillsite is approximately 15 miles southeast of Ouray, Utah, the nearest town. A good road runs to within 1 ½ mile south of the location. This well is in the Bitter Creek field.

Topography:

A flat ridge top which is bordered on the north and south by two covering deep drainages. The immediate surrounding area drains to the south but eventually contributes its runoff to the White River north of the location.

Geology:

The surface geology is Uintah Formation. The soil is a shallow light brown sandy loam. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.



Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels which might permit exposed upper formations to blowout or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep into the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah. The operator's drilling, cementing, casing, and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

#### Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay-type soil. The soil is subject to runoff from rainfall and has a high runoff potential, and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 1.6 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, and reseeding of slope-cut area would minimize this impact.

#### Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved roads. The potential for increased air

pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

#### Precipitation:

Annual rainfall should range from about 8 to 11 inches at the proposed location. The majority of the numerous drainages in the surrounding area are of a nonperennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8 inches.

Winds are medium and gusty, occurring predominantly from West to East. Air mass inversions are rare.

The climate is semiarid with abundant sunshine, hot summers and cold winters, with temperature variations on a daily and seasonal basis.

#### Surface-Water Hydrology:

Drainage is toward a northerly flowing unnamed tributary of the White River. Some surface water may also drain toward Sand Wash.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface-water systems.

The potentials for pollution would be present from leaks or spills. The operator is required to report and clean up all spills or leaks.

#### Ground-Water Hydrology:

Some minor pollution of ground-water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination, and commingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basis information as all

shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B.

The depths of fresh-water formations are listed in the 10-Point Sub-surface Protection Plan. There would be no tangible effect on water migration in fresh-water aquifers. The pits would be unlined unless highly fractured material is encountered in construction. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

#### Vegetation:

Plants in the area are of the salt-desert-shrub type sage brush and greasewood are the dominant plants in this area.

Proposed action would remove about 2.3 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

#### Wildlife:

Animal and plant inventory has been made by the Bureau of Land Management. No endangered plants or animals are known to habitat on the project area. The fauna of the area consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

#### Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If an historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings and other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and are judged to be minor. All permanent facilities placed on the location should be painted a light sand color to blend in with the natural environment. Present use of the area is

grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to predrilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would not be visible to passersby of the area.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uinta County. But should this well discover a significant new hydrocarbon source, local, State, and possibly National economics might be improved. In this instance, other development wells would be anticipated with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and U.S. Geological Survey's satisfaction. This would involve leveling, contouring, re-seeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

#### Land Use:

There are no National, State, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails, or other formally designated recreational facilities near the proposed location.

The proposed location is within the Seep Ridge Planning Unit (01-07). This Environmental Assessment Record (EAR) was compiled by the Bureau of Land Management, the surface management agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The EAR is on file in the agency's State Offices and is incorporated herein by reference.

#### Waste Disposal:

The mud and reserve pits would contain all fluids used during the operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternatives to the Proposed Action:

(1) Not approving the proposed permit -- The oil and gas lease grants the Lessee exclusive right to drill for, mine, extract, remove, and dispose of all oil and gas deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under the U.S. Geological Survey and other controlling agencies' supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite access road would not significantly reduce the environmental impact. There are no severe vegetative, animal, or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan. The pits should be lined with an impervious material if a highly fractured, permeable soil zone is encountered during pit construction.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 2.3 acres of land surface from the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil, or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to fresh-water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the White River.

The potential for pollution to the adjacent unnamed drainages would exist through leaks and spills.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(C).

12/4/78  
Date

E. W. Longman  
District Engineer  
U.S. Geological Survey  
Conservation Division  
Oil and Gas Operations  
Salt Lake City District



34-30-10-22 L1500  
Lease # 4013268-A  
Facing NW pit in Back of State

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☒PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☒OTHER ☐

## 2. NAME OF OPERATOR

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## 3. ADDRESS OF OPERATOR

P. O. BOX 749, DENVER, CO 80201

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At proposed prod. zone

SAME AS ABOVE

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

APPROXIMATELY 15 MILES SOUTHEAST OF OURAY, UTAH

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

38'

## 16. NO. OF ACRES IN LEASE

560

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

N/A

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.APPROXIMATELY  
6250'

## 19. PROPOSED DEPTH

5800'

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5379' UNGRADED GROUND

## 22. APPROX. DATE WORK WILL START\*

January 15, 1979

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	200'	125 sx
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- (3) 13-POINT PROGRAM
- (4) PLAT

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 11-2-78

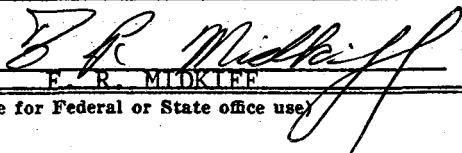
BY: C.B. Light

GAS WELL PRODUCTION HOOKUP TO FOLLOW ON SUNDRY NOTICE.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED



TITLE

DISTRICT SUPERINTENDENT

DATE October 31, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

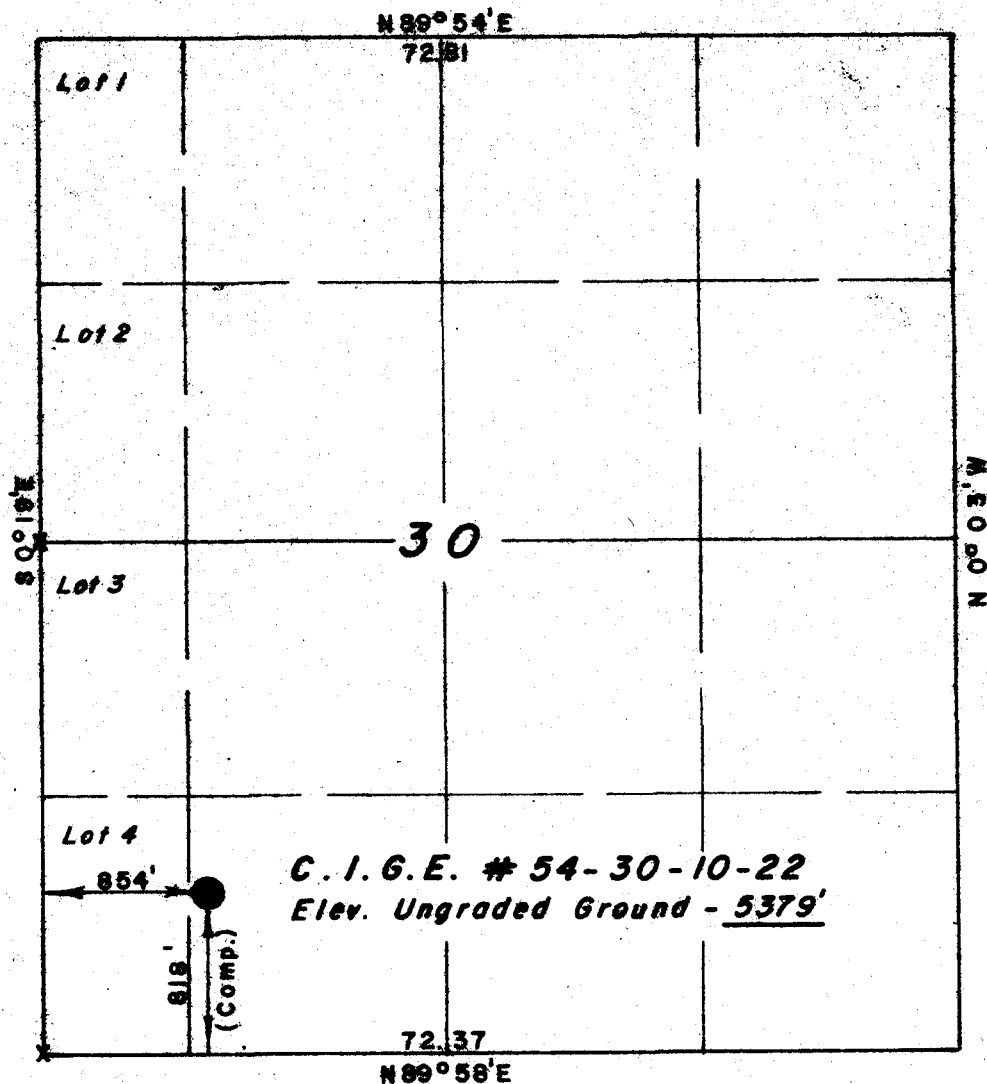
DATE

CONDITIONS OF APPROVAL, IF ANY:

T10S, R22E, S.L.B.&M.

PROJECT  
C.I.G. EXPLORATION INC.

Well location, C.I.G.E. # 54-30-10-22  
located as shown in the SE 1/4 SW 1/4  
Section 30, T10S, R22E, S.L.B. & M.  
Utah County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Gene Stewart*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3154  
STATE OF UTAH

Revised 10 / 19 / 78

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX 9 - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	10 / 10 / 78
PARTY	DA JB RP	REFERENCES	GLO Plat
WEATHER	Fair	FILE	C.I.G.E.



CIGE 54-30-10-22  
Section 30, T10S, R22E  
Uintah County, Utah

10-POINT PROGRAM

1. Geologic name of surface formation:

UINTA

2. The estimated tops of important geologic markers:

GREEN RIVER 400'

WASATCH 4125'

3. The estimated depths at which anticipated water, oil, gas are expected to be encountered:

WASATCH — 4125' — GAS

4. The proposed casing program, including the size, grade, and weight per foot each string and whether new or used:

9-5/8" - K-55, ST&C - 36# NEW

4-1/2" - N-80, LT&C - 11.6# NEW

5. The Operators' minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings, and testing procedures and testing frequency:

Bottom:

3000# BOP W/4-1/2" pipe rams  
3000# BOP W/blind rams  
3000# Hydril

Top:

Grant rotating head

Manifold includes appropriate valves, positive and adjustable chokes and kill line to control abnormal pressures.

BOP's will be tested at installation and will be cycled on each trip.

6. The type and characteristics of the proposed circulating medium to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained:

6. Continued --

The well will be drilled with fresh water from surface to 4500' with a weight of 8.3 to 8.7 . From 4500' to TD the well will be drilled with fresh wtr mud with a weight from 8.7 to 10.4 . Sufficient weighting material (barite) will be on location to increase the mud weight if abnormal pressure is encountered.

7. The auxiliary equipment to be used:

- a. kelly cock
- b. monitoring equipment on the mud system
- c. a sub on the floor with a full opening valve to be stabbed into the drill pipe when the kelly is not in the string.

8. The testing, logging and coring program to be followed:

No DST's are planned  
No cores are expected to be cut.

LOGS: Dual Induction Laterolog  
Compensated Neutron-Formation Density

9. Any anticipated abnormal pressures or temperatures expected to be encountered:

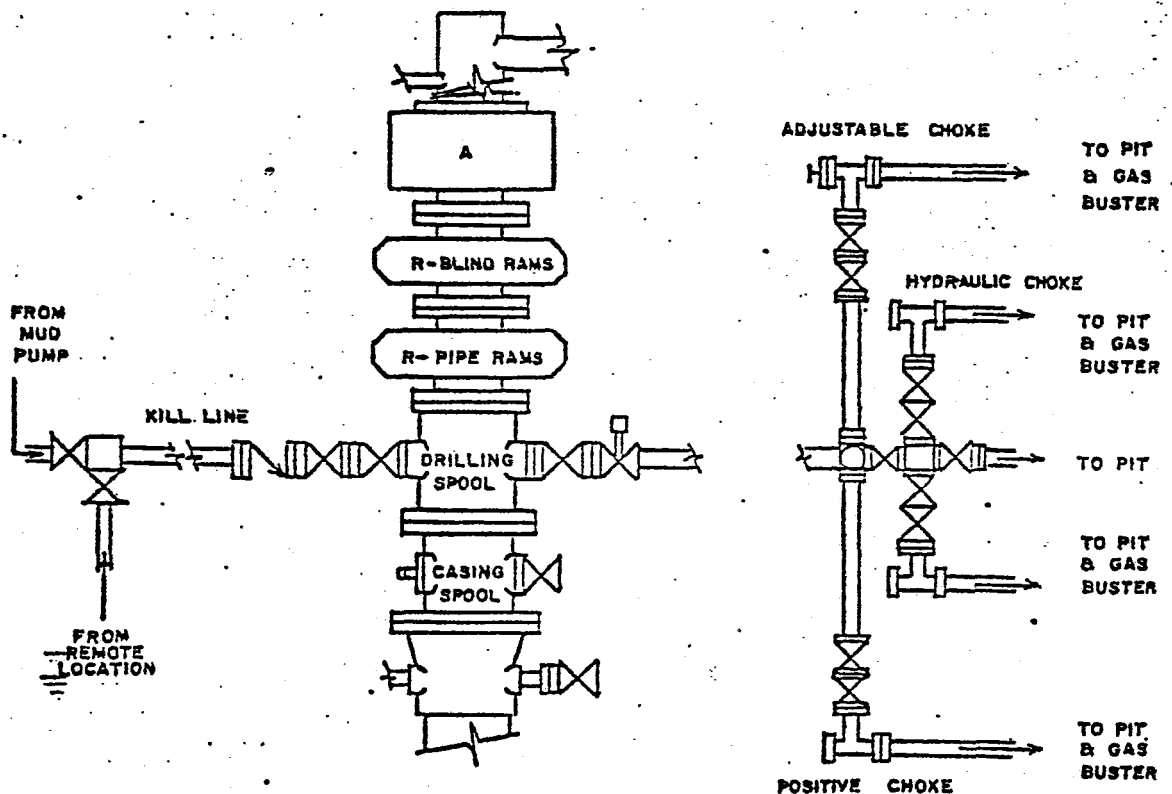
No abnormal pressures or temperatures expected  
No hydrogen sulfide expected

10. The anticipated starting date and duration of the operation:

January 15, 1979. three week duration.

3000 psi

psi Working Pressure BOP's



### Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test the following to rated pressure:
  - a) inside blowout preventer
  - b) lower kelly cock
  - c) upper kelly cock
  - d) stand pipe valve
  - e) lines to mud pump
  - f) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure.
- 8) Test kill line valves to rated pressure.

C.I.G. EXPLORATION INCORPORATED

13 Point Surface Use Plan

For

Well Location

C.I.G.E. #54-30-10-22

Located In

Section 30, T10S, R22E, S.L.B. & M.

Uintah County, Utah

1. EXISTING ROADS

See attached Topographic Map "A".

To reach C.I.G. Exploration Incorporated, well location C.I.G.E. #54-30-10-22 location in the SW  $\frac{1}{4}$  Section 30, T10S, R22E, S.L.B. & M., Uintah County, Utah: proceed Westerly out of Vernal, Utah along U.S. Highway 40, 14 miles to the junction of this road and Utah State Highway 209; proceed South along Utah State Highway 209 7 miles more or less, to the junction of this Highway and Utah State Highway 88; proceed South along Utah State Highway 88 10 miles to Ouray, Utah; proceed along South on a county road, known as the Seep Ridge Road, + 10.8 miles to the junction of this road and a oil field service road to the East; proceed Easterly along this road 9.7 miles to the junction of this road and a road to the Southeast; proceed Southeasterly along this road 0.7 miles to the junction of this road and the point that the proposed access road (to be discussed in Item #2) leaves the existing road and proceeds in a Easterly direction to the proposed location site.

The Highways mentioned in the foregoing paragraph are bituminous surfaced roads to Ouray, Utah at which point the County road is surfaced with native asphalt, to the oil field service road.

The aforementioned dirt oil field service road and other roads in the vicinity are constructed out of native materials that are prevalent to the areas they are located in and range from clays to a sandy-clay shale material.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and the production phase of this well at such time that production is established.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well, will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing road described in Item #1 in the SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  Section 29, T10S, R22E, S.L.B. & M., and proceeds in a Westerly direction 1.4 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met;

The proposed access road will be an 18' crown road (9' either side of the center-line) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1  $\frac{1}{2}$  to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

2. PLANNED ACCESS ROAD - continued

If deemed necessary by the local governmental agencies or their representatives, turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges or at intervals and locations that will provide the greatest sight distance. These turnouts will be 200' in length and 10' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and outlet ends.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

The terrain that this access road traverses is relatively flat and crosses a few small hills and washes.

The vegetation of this route consists of sparse amounts of sagebrush, rabbitbrush, some grasses, and cacti with large areas that are devoid of vegetation.

3. LOCATION OF EXISTING WELLS

There are other wells within a one mile radius of this well. For exact location of this well within Section 30, T10S, R22E, S.L.B. & M., see location plat.

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

At the present time there are other C.I.G. Exploration Incorporated batteries, production, facilities, oil gathering lines, gas gathering lines, injection, and disposal lines within a one-mile radius.

In the event that production of this well is established, the existing area of the location will be utilized for the establishment of the necessary production facilities.

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to the facilities.

The area will be built, if possible, with native materials and if these materials are not available then the necessary arrangements will be made to get them from private sources.

The proposed gas flow line will be an 18' right of way which will run in a Northerly direction approximately 1.1 miles to an existing pipe line at an existing well Natural Buttes # 17 located in the SW  $\frac{1}{4}$  of Section 19, T10S, R22E, S.L.B. & M. (See Topographic Map "B".)

If there is any deviation from the above, all appropriate agencies will be notified.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "A".

Water to be used for the drilling and production of this well will be hauled from the White River at a point near the Mountain Fuel Bridge located in the SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  Section 17, T9S, R22E, S.L.B. & M. The water will be hauled by truck over roads described in Item #1 and the proposed access road, to the proposed location site a distance of approximately 15.2 miles.

In the event that the above source is not used, the water will be hauled by truck utilizing the roads described in Items #1 and #2, from the White River South of Ouray, Utah a distance of approximately 21.6 road miles.

All regulation and guide lines will be followed and no deviations will be made unless all concerned agencies are notified.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of this location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

The native material that will be used in the construction of this location site and access road will consist of sandy-clay and sandstone and shale material gathered in actual construction of the road and location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A reserve and burn pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be burned in the burn pit. Non-flammable material such as cuttings, salts, chemical, etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the burn pit will be fenced on all four sides with a net wire, and the reserve pit will be fenced on three sides. Upon completion of drilling the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted. A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site and road.

9. WELL SITE LAYOUT - continued

As mentioned in Item #6, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet.) When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4' of cover. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A".)

The area slopes from the rim of the Book Cliff Mountains to the South to the Green River to the North, and is a portion of the Roan Plateau. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

The majority of the washes and streams in the area are non-perennial in nature with the only one in the area having a year round flow being the White River to the North, of which the numerous washes, draws, and non-perennial streams are tributaries.

The majority of the surrounding drainages are of a non-perennial nature with normal flow limited to the early spring run-off and extremely heavy thunderstorms, or rain storms of high intensity lasting over an extended period of time which are rare in nature as the normal annual precipitation is only 8".

All drainages in the immediate area are of the Uinta Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravel surfaces) and the visible geologic structure consists of light brownish-gray clays (OL) to sand soils (SM-ML) with poorly graded gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates, and shale).

Due to the low precipitation average, climatic conditions, and marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations of the Uinta Basin. It consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti, and large areas of bare soil devoid of any growth. In the areas away from and in the vicinity of non-perennial streams, and along the edges of perennial streams, cottonwoods, willows, tamarack, sagebrush, grasses, and cacti can be found.



11. OTHER INFORMATION - continued

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, pronghorn antelope, rabbits, varieties of small ground squirrels and other types of rodents, and various reptiles common to the area.

The birds of the area are raptors, finches, ground sparrows, magpies crows, and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area (See Topographic Map "B".)

C.I.G.E. #54-30-10-22 location site sits on a small ridge which slopes on three sides into two small non-perennial washes which slope to the Northwest. This location will probably need to be built slightly smaller than shown on the location layout sheet.

The non-perennial drainages in the immediate area drain to the North, and are tributaries to the aforementioned White River.

The geologic structure of the location is of Uinta Formation and consists of light brownish-gray sandy clay (SP-CL) with some sandstone outcrops.

The ground slopes from the Southwest through the location to the Northeast at approximately 5% grade.

The location is covered with some sagebrush, and grasses.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "A".).

12. LESSEE'S OPERATOR'S REPRESENTATIVE

Frank R. Midkiff  
C.I.G. Exploration Incorporated  
P.O. Box 749  
Denver, Colorado 80201

Tele: 572-1121

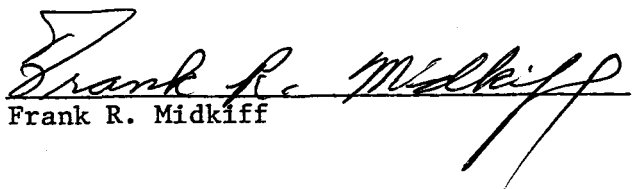
13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operations proposed herein will be performed by C.I.G. Exploration Incorporated and its contractors and sub-contractors in conformity with this plan and terms and conditions with this plan and terms and conditions with which it is approved.

DATE

10/31/78

Frank R. Midkiff



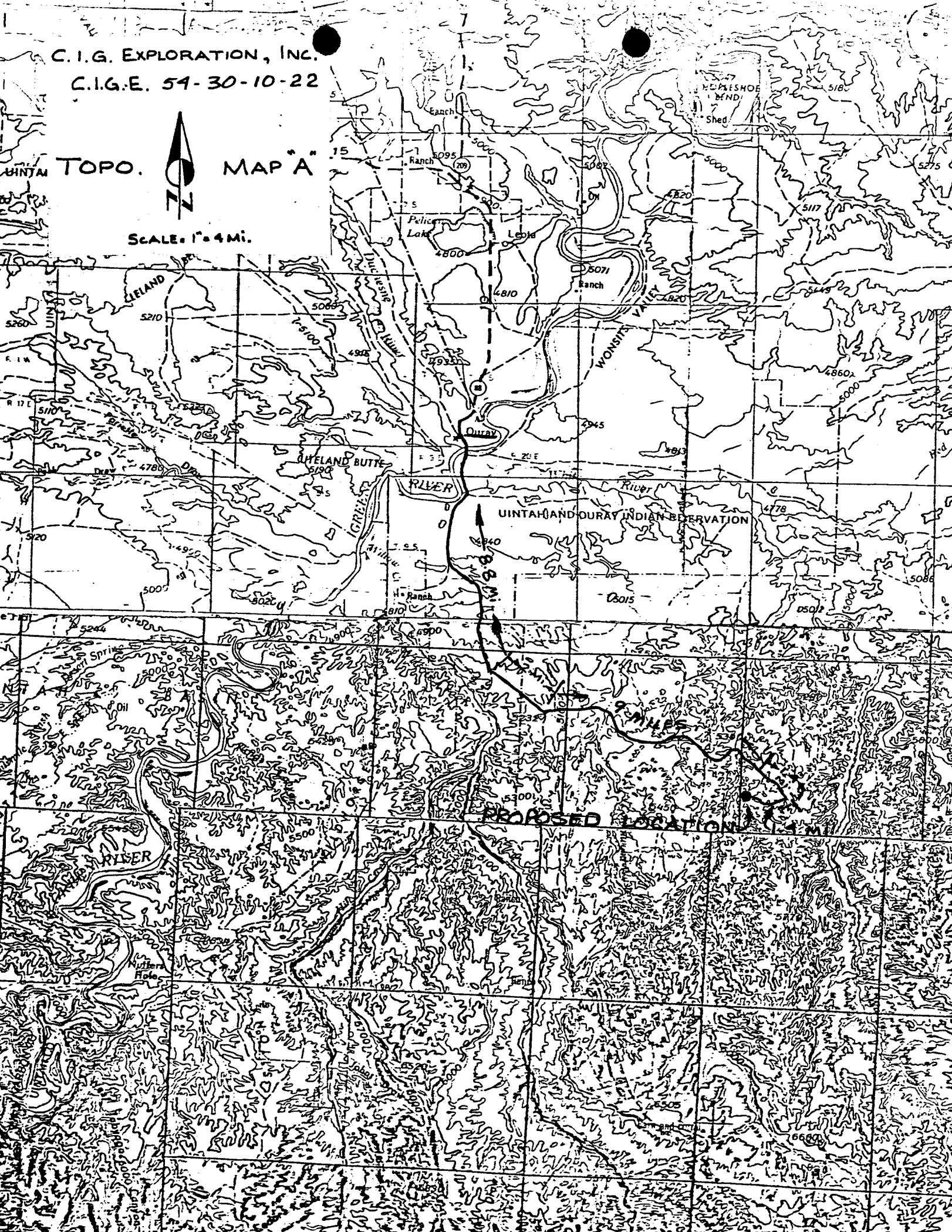
C. I. G. EXPLORATION, INC.

C.I.G.E. 54-30-10-22

TOPO.

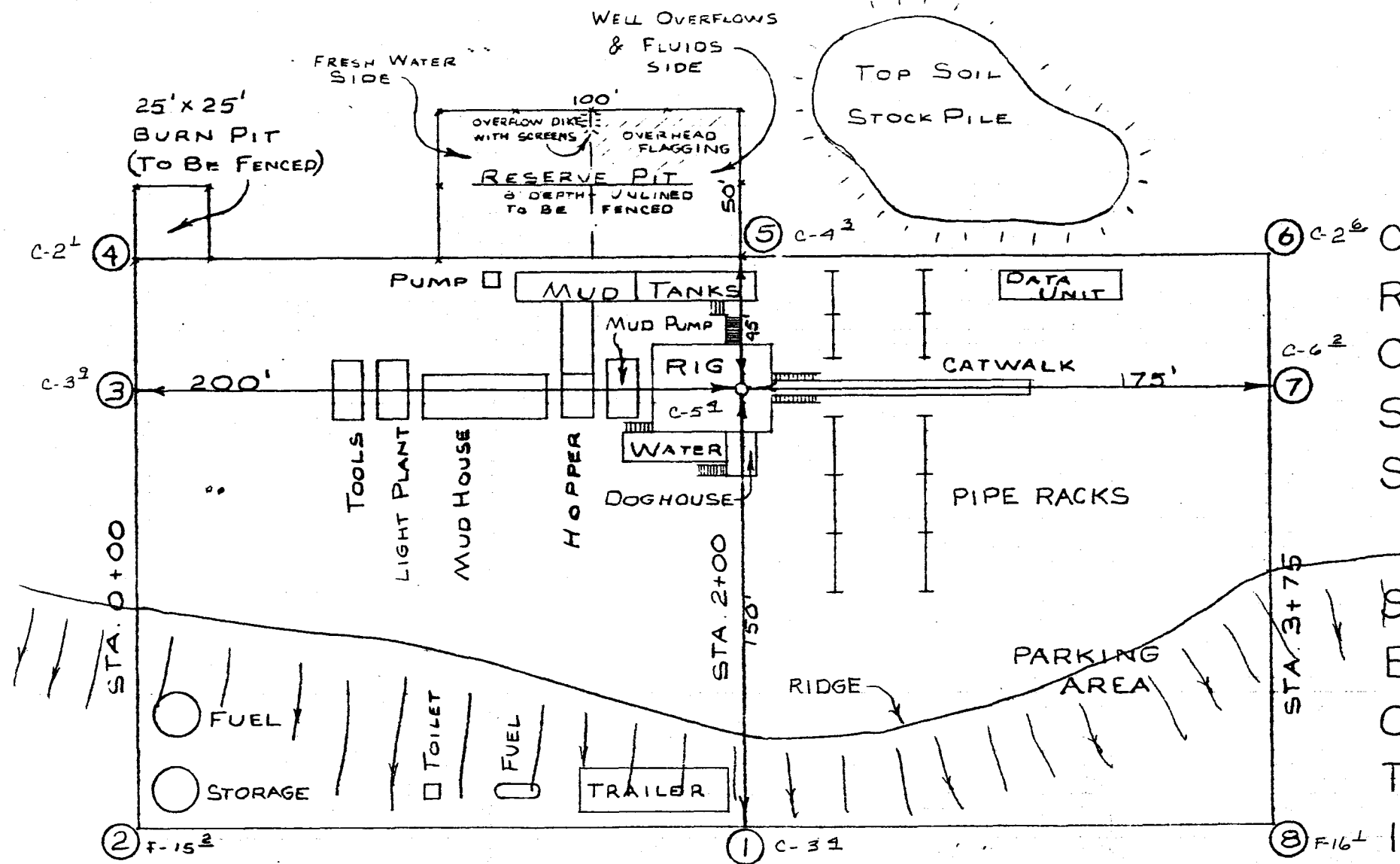
MAP "A"

SCALE: 1" = 4 MI.

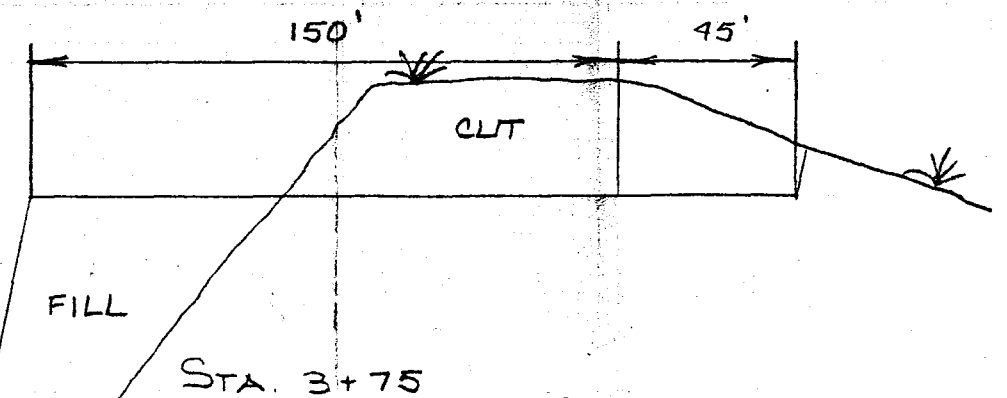
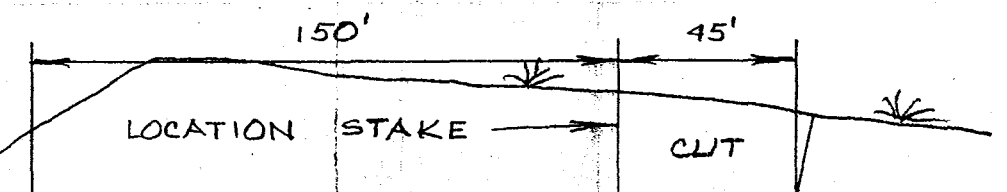
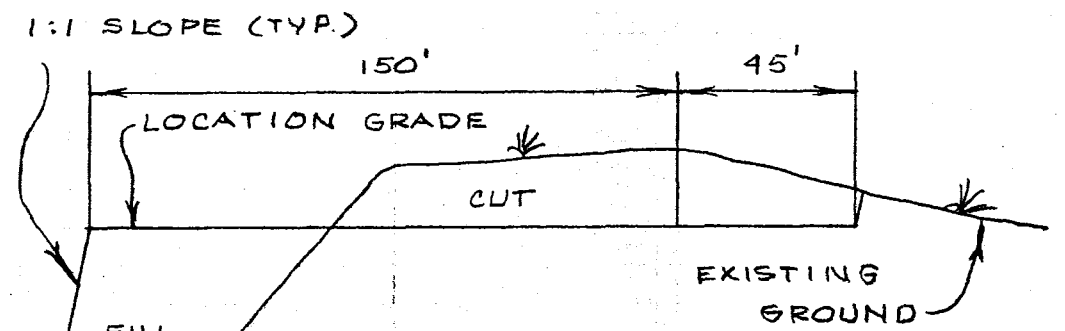


# C.I.G. EXPLORATION

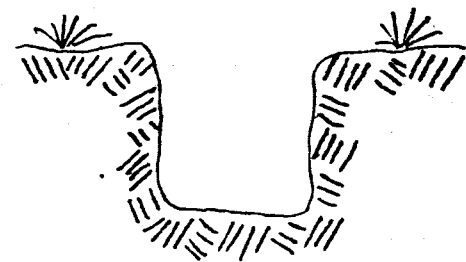
C.I.G.E. # 54-30-10-22  
LOCATION LAYOUT & CUT SHEET



C  
R  
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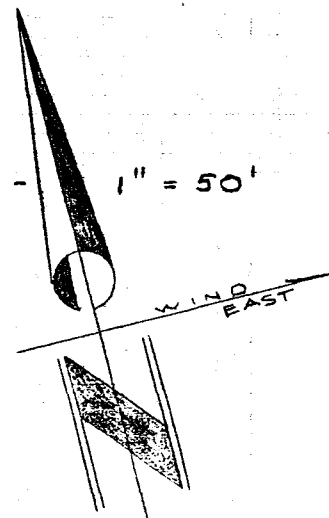


SOILS LITHOLOGY  
- NO SCALE -



LIGHT BROWN  
SANDY CLAY

SCALE - 1" = 50'



SCALE  
1" = 50'

APPROX. YARDAGES...  
CUT 8,047 CU. YDS  
FILL 7,302 CU. YDS

C.I.G. EXPLORATION, INC.

C.I.G.E. 54-30-11-22

TOPO.



MAP 'B'

SCALE 1" = 2000'

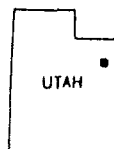
ROAD CLASSIFICATION

Medium-duty

Light-duty

Unimproved dirt

State Route



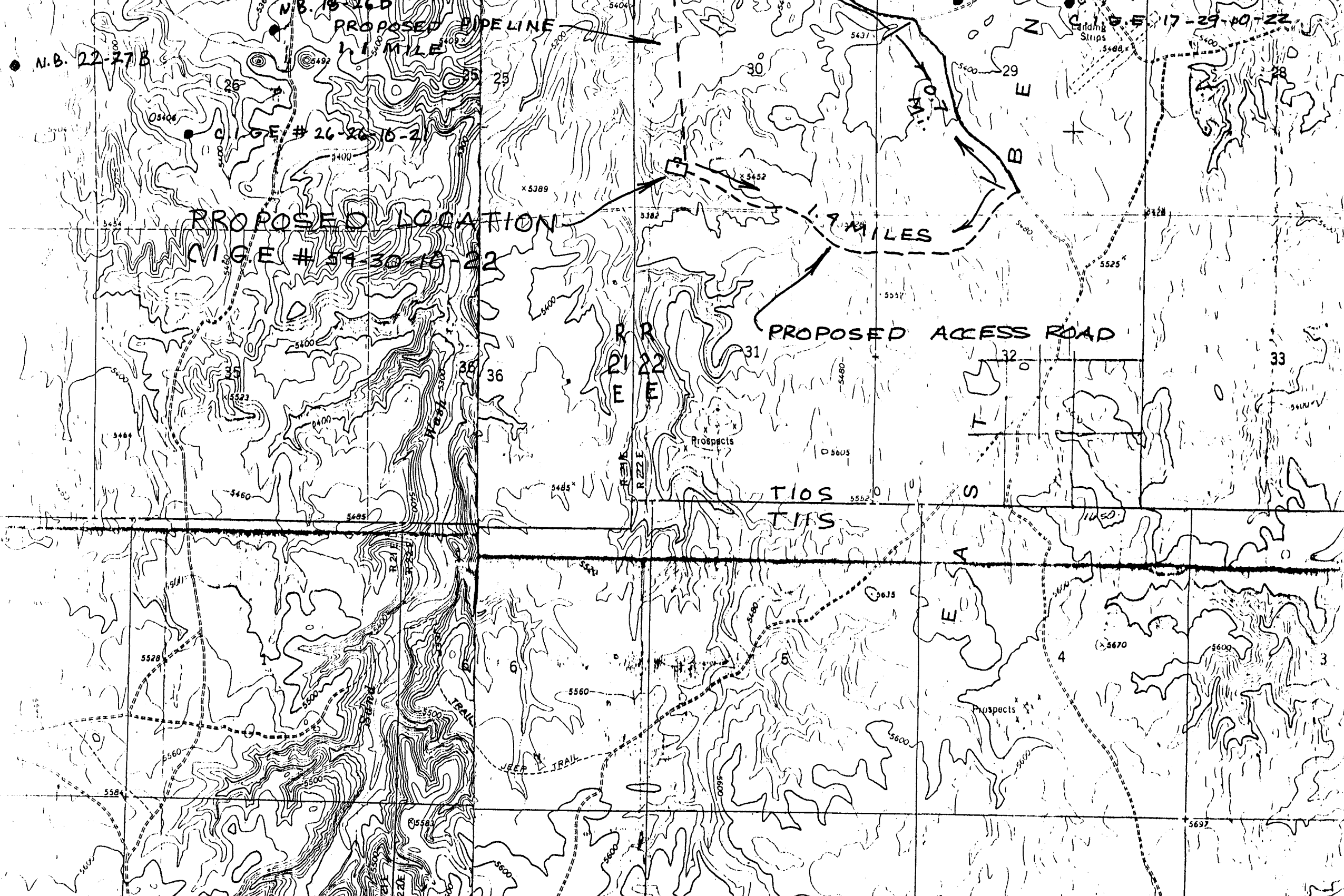
UTAH

EXISTING PIPELINES

C.I.G.E. 16-20-10-22

EXISTING PIPELINE

5 MILES TO OURAY, UTAH  
RIDGE ROAD  
9.1 MILES



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-0132568-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

NATURAL BUTTES UNIT

8. FARM OR LEASE NAME

NATURAL BUTTES

9. WELL NO.

CIGE 54-30-10-22

10. FIELD AND POOL, OR WILDCAT

BITTER CREEK FIELD

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 30, T10S, R22E

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

GAS PRODUCING ENTERPRISES, INC.

3. ADDRESS OF OPERATOR

P.O. BOX 749, DENVER, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements. See also space 17 below.)

At surface

818' FSL &amp; 854' FWL, Section 30, T10S, R22E

14. PERMIT NO.

43-047-30534

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5379' UNGRADED GROUND

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

PIPELINE HOOKUP

☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

PIPELINE HOOKUP

☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SUPPLEMENT TO APPLICATION FOR PERMIT TO DRILL

(1) PROPOSED GAS WELL PRODUCTION HOOKUP

(A) TYPICAL WELL HEAD INSTALLATION

(B) TYPICAL MAIN LINES AND PIPE ANCHOR DETAIL

(2) PROPOSED PIPELINE MAP

(3) PROPOSED ROAD FOR FLOW LINE AND PIPELINE RIGHT OF WAY

FOR ON-SITE CONTACT:

EDWARD N. NORRIS AT (801) 789-2773

OR

IRA K. McCLANAHAN AT (303) 473-2300

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

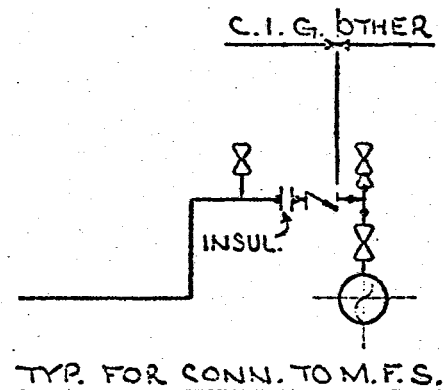
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:





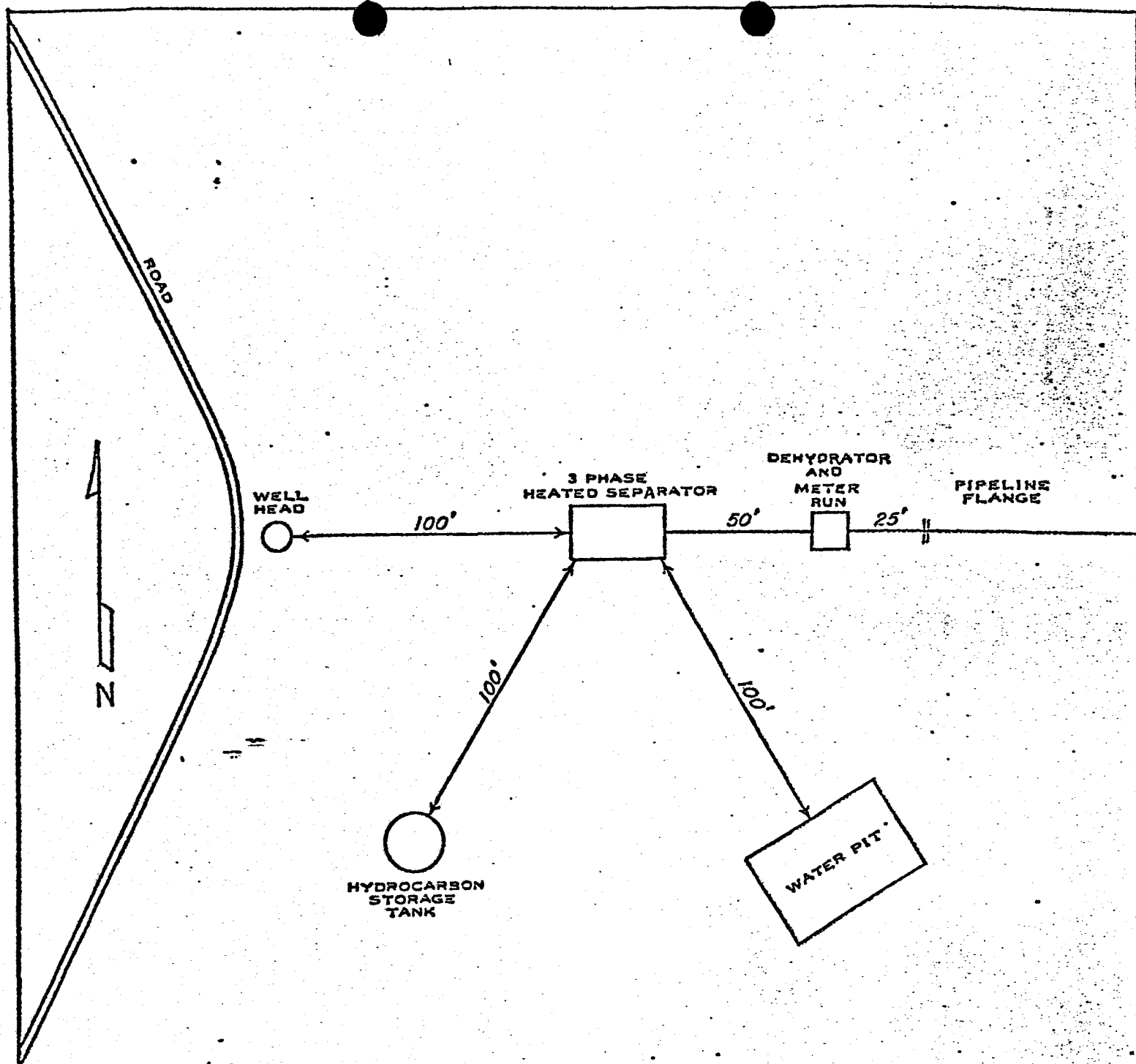


Colorado Interstate Gas Co.  
COLORADO SPRINGS, COLORADO

TYPICAL CONNECTION TO MAIN  
LINES AND PIPE ANCHOR  
DETAIL - NATURAL BUTTES FIELD  
UINTA COUNTY, UTAH

SLAB: NONE DRAWN RWP APP 111  
DATE: 7-7-77 CHECK 111 C C 23858 115FP-1 1/8





GAS PRODUCING ENTERPRISES, INC.  
DENVER, COLORADO

CIGE 54-30-10-22  
Section 30, T10S, R22E  
Uintah County, Utah

# ESTIMATE SKETCH

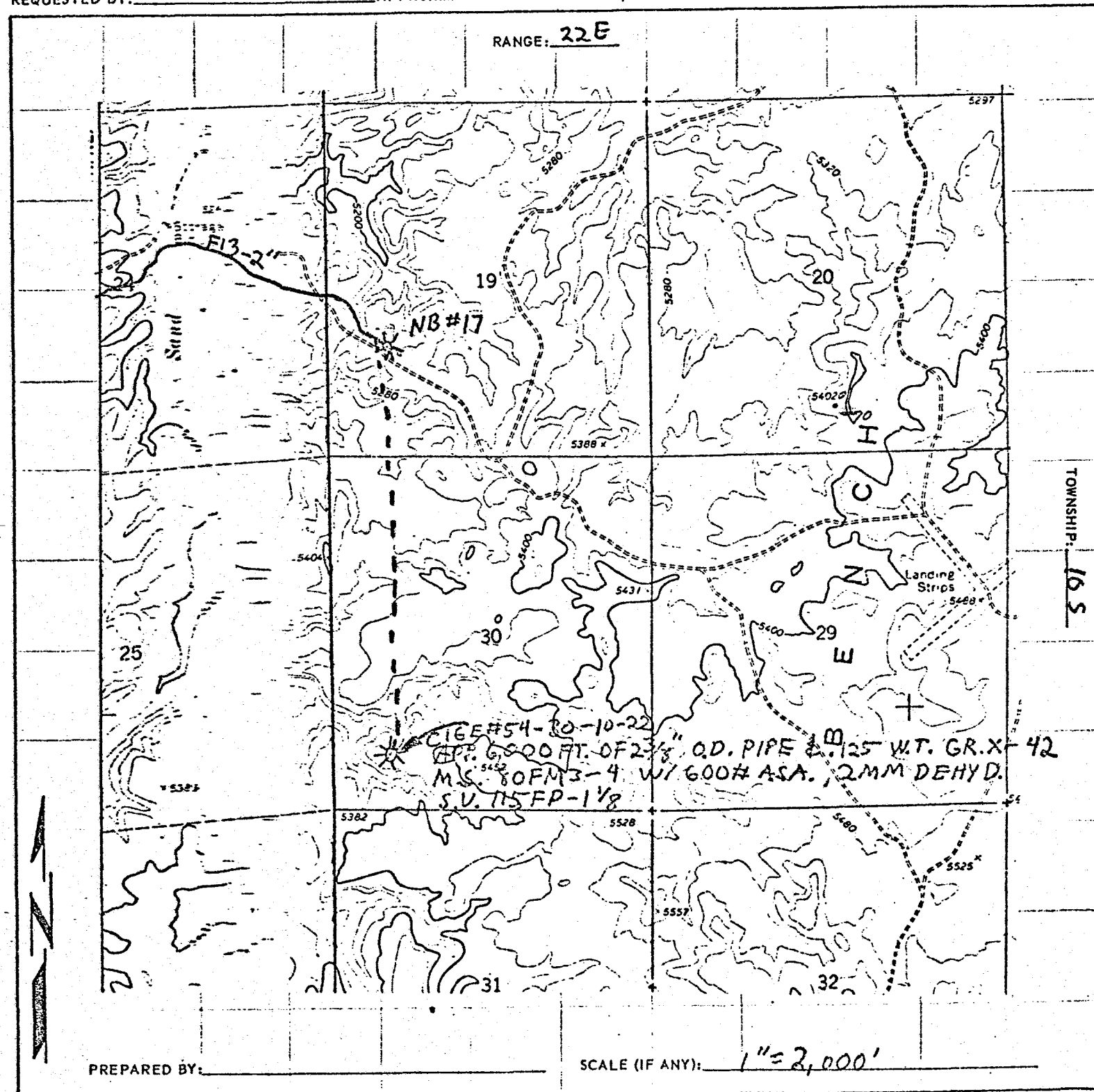
DATE: 11/13/78  
STARTING DATE: \_\_\_\_\_  
EST. COMP. DATE: \_\_\_\_\_  
☐ COMPANY ☒ CONTRACT

☒ COLORADO INTERSTATE GAS COMPANY  
☐ NORTHWEST PIPELINE CORPORATION

W. O. NO.: \_\_\_\_\_  
REVISION NO.: \_\_\_\_\_  
BUDGET NO.: \_\_\_\_\_  
RELATED DWG.: 115FH-1(C)

LOCATION: S18'FSL, 854'FWL SECT 30-10S-22E COUNTY: Uintah STATE: Utah  
DESCRIPTION OF WORK: connect CIGE #54-30-10-22 Natural Buttes

REQUESTED BY: \_\_\_\_\_ APPROXIMATE MILEAGE: 1.1 PROJECT ENGINEER: JFK



Freehand sketch of location of proposed installation to be constructed or retired showing relative location of existing facilities in area.

Statement for permit to lay flow line, to be included with application for Drilling Permit -- CIGE #54-30-10-22.

Upon approval of all concerned regulatory agencies, CIG proposes to install a surface flow line from CIGE #54-30-10-22 in a Northernly direction through the W/2 of Section 30 and the SW/4 of Section 19, connecting to a 2" line (F13-2") from GPE N.B. #17 in the SW/4 of Section 19, all in T10S-22E. The line will be approximately 6000' long as shown on the attached sketches.

Pipe will be 2-3/8" O.D. x .125" W.T., Grade X-42 EW. It will be butt-welded in place using portable electric welding machines, and will be laid above ground except where burial is necessary for road crossing, ditches, or other obstructions.

CIG will connect to Producer's separator and install dehydration and metering facilities within 100' of the connection.

Some damage will be incurred by trucks transporting pipe and welding equipment over the pipeline route, but surface disturbance will be held to a minimum.



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

November 19, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE MCINTYRE

Cig Exploration, Inc.  
P. O. Box 749  
Denver Colo. 80201

RE: SEE ATTACHED SHEET FOR WELLS.

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill this well (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms.\* If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well, and action will be taken to terminate the application. If you plan on drilling this well at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Debbie Beauregard*  
DEBBIE BEAUREGARD  
CLERK-TYPIST

ATTACHMENT, WELLS INVOLVED.

- 1) Well No. CIGE 25-29-9-21  
Sec. 29, T. 9S, R. 21E,  
Uintah County, Utah
- 2) Well No. CIGE 26-26-10-21  
Sec. 26, T. 10S, R. 21E,  
Uintah County, Utah
- 3) Well No. CIGE 29-23-9-20  
Sec. 23, T. 9S, R. 20E,  
Uintah County, Utah
- 4) Well No. CIGE 30-6-10-21  
Sec. 6, T. 10S, R. 21E,  
Uintah County, Utah
- 5) Well No. CIGE 31-1-10-22  
Sec. 1, T. 10S, R. 22E,  
Uintah County, Utah
- 6) Well No. CIGE 32-20-9-20  
Sec. 20, T. 9S, R. 20E,  
Uintah County, Utah
- 7) Well No. CIGE 33-27-10-21  
Sec. 27, T. 10S, R. 21E,  
Uintah County, Utah
- 8) Well No. CIGE 38-4-10-21  
Sec. 4, T. 10S, R. 21E,  
Uintah County, Utah
- 9) Well No. CIGE 54-30-10-22  
Sec. 30, T. 10S, R. 22E,  
Uintah County, Utah



*CIG Exploration, Inc.*

A Unit of Coastal States Gas Corporation  
2100 PRUDENTIAL PLAZA • P.O. BOX 749  
DENVER, COLORADO 80201 • (303) 572-1121

November 27, 1979

Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

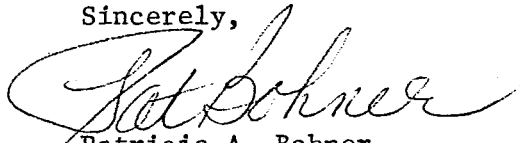
Atten: Ms. Debbie Beauregard

Gentlemen:

54-30-10-22

CIG Exploration, Inc., does intend to drill those wells listed in your letter of November 19, 1979. At this time, however, a definite timetable of drilling operations has not been set. We would therefore, appreciate your retaining our applications for these wells in an active category.

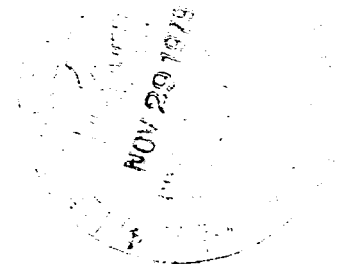
Sincerely,



Patricia A. Bohner  
Regulatory Analyst

PAB/pm

xc: F. W. Heiser  
H. Speer



ATTACHMENT, WELLS INVOLVED.

- 1) Well No. CIGE 25-29-9-21  
Sec. 29, T. 9S, R. 21E,  
Uintah County, Utah
- 2) Well No. CIGE 26-26-10-21  
Sec. 26, T. 10S, R. 21E,  
Uintah County, Utah
- 3) Well No. CIGE 29-23-9-20  
Sec. 23, T. 9S, R. 20E,  
Uintah County, Utah
- 4) Well No. CIGE 30-6-10-21  
Sec. 6, T. 10S, R. 21E,  
Uintah County, Utah
- 5) Well No. CIGE 31-1-10-22  
Sec. 1, T. 10S, R. 22E,  
Uintah County, Utah
- 6) Well No. CIGE 32-20-9-20  
Sec. 20, T. 9S, R. 20E,  
Uintah County, Utah
- 7) Well No. CIGE 33-27-10-21  
Sec. 27, T. 10S, R. 21E,  
Uintah County, Utah
- 8) Well No. CIGE 38-4-10-21  
Sec. 4, T. 10S, R. 21E,  
Uintah County, Utah
- 9) Well No. CIGE 54-30-10-22  
Sec. 30, T. 10S, R. 22E,  
Uintah County, Utah

March 27, 1980

Cig Exploration, Inc.  
P.O. Box 749  
Denver, Colorado 80201

Re: See attached sheet for wells

Gentlemen:

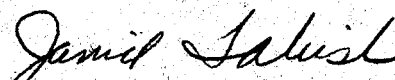
This letter is in response to a notice dated 11-27-79, on the above mentioned wells.

We would like to know the status of these wells. Our files show that they have not been drilled as of yet. Please advise this office of any change in any of the above wells.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

  
JANICE TABISH  
CLERK-TYPIST



- (1) Well No. Cige 26-26-10-21  
Sec. 26, T. 10S, R. 21E.  
Uintah County, Utah
- (2) Well No. Cige 29-23-9-20  
Sec. 23, T. 9S, R. 20E.  
Uintah County, Utah
- (3) Well No. Cige 32-20-9-20  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah
- (4) Well No. Cige 33-27-10-21  
Sec. 27, T. 10S, R. 21E.  
Uintah County, Utah
- (5) Well No. Cige 38-4-10-21  
Sec. 4, T. 10S, R. 21E.  
Uintah County, Utah
- (6) Well No. Cige 54-30-10-22  
Sec. 30, T. 10S, R. 22E.  
Uintah County, Utah



# CIG Exploration, Inc.

A Unit of Coastal States Gas Corporation  
2100 PRUDENTIAL PLAZA • P.O. BOX 749  
DENVER, COLORADO 80201 • (303) 572-1121

April 2, 1980

Ms. Janice Tabish, Clerk Typist  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

**RECEIVED**  
APR 04 1980

DIVISION OF  
OIL, GAS & MINING

Dear Ms. Tabish:

Enclosed is a copy of my letter dated November 27, 1979, which replied to a notice sent to us in November. Following is the present status relative to drilling operations on these wells.

- |   |   |
|---|---|
| 1. CIGE 26-26-10-21<br>Section 26-T10S-R21E<br><u>Uintah County, Utah</u> | This well is planned for the first half of 1980.  |
| 2. CIGE 29-23-9-20<br>Section 23-T9S-R20E<br><u>Uintah County, Utah</u>   | We plan to spud this well within the next month. We are presently waiting on BIA approval and subsequently, USGS approval for the renewal of our drilling permit. |
| 3. CIGE 32-20-9-20<br>Section 20-T9S-R20E<br><u>Uintah County, Utah</u>   | The status of this proposed well is the same as CIGE 29-23-9-20.  |
| 4. CIGE 33-27-10-21<br>Section 27-T10S-R21E<br><u>Uintah County, Utah</u> | The wells are planned for the latter half of 1980.  |
| 5. CIGE 38-4-10-21<br>Section 4-T10S-R21E<br><u>Uintah County, Utah</u>   |   |
| 6. CIGE 54-30-10-22<br>Section 30-T10S-R22E<br><u>Uintah County, Utah</u> |   |

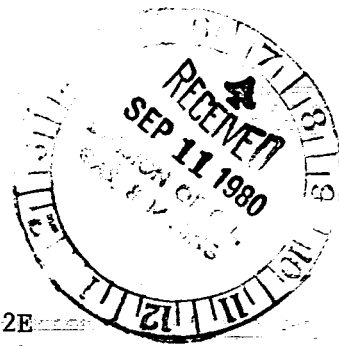


Coastal Oil & Gas Corporation

2100 Prudential Plaza  
Post Office Box 749  
Denver, Colorado 80201  
Phone (303) 572-1121

September 5, 1980

State of Utah  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116



Re: CIGE 62-18-9-22  
Section 18-T9S-R22E  
Uintah County, Utah

CIGE 51-4-10-22  
Section 4-T10S-R22E  
Uintah County, Utah

CIGE 37-13-10-22  
Section 13-T10S-R22E  
Uintah County, Utah

CIGE 54-30-10-22  
Section 30-T10S-R22E  
Uintah County, Utah

CIGE 67-32-10-21  
Section 32-T10S-R21E  
Uintah County, Utah

Gentlemen:

The U. S. Geological Survey has rescinded the above approved applications by letter dated August 22, 1980, (copy attached). Please also withdraw State approval for the drilling of these wells.

Sincerely,

C. A. Hansen  
Drilling Engineer

PAB/CAH/pm

xc: P. Bohner  
File

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Coastal Oil &amp; Gas Corporation

## 3. ADDRESS OF OPERATOR

P. O. Box 749, Denver, Colorado 80201

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

818' FSL / 854' FWL (SE SW)

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 15 miles SE of Ouray, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

38'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

6520'

## 16. NO. OF ACRES IN LEASE

560

## 19. PROPOSED DEPTH

6000' (Wasatch)

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5379' Ungr. Gr.

## 22. APPROX. DATE WORK WILL START\*

February 15, 1981

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	200'	125 sacks
8-3/4", 7-7/8"	4-1/2"	11.6#	6000'	Circulate cement back to Surface

Fresh Water Aquifers will be protected when the long string is run and cement is circulated back to surface.

Please see the following supplemental information:

- (1) 10-Point Program
- (2) 13-Point Program
- (3) BOP Schematic
- (4) Survey Plat

APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING

DATE: 1-22-81

BY: M. J. Mundy

Gas Well Production Hookup to follow on Sundry Notice.

RECEIVED

JAN 21 1981

DIVISION OF  
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

F. W. Heiser

TITLE Drilling Manager

DATE January 16, 1981

(This space for Federal or State office use)

PERMIT NO.

43-047-30873

APPROVAL DATE

APPROVED BY

TITLE

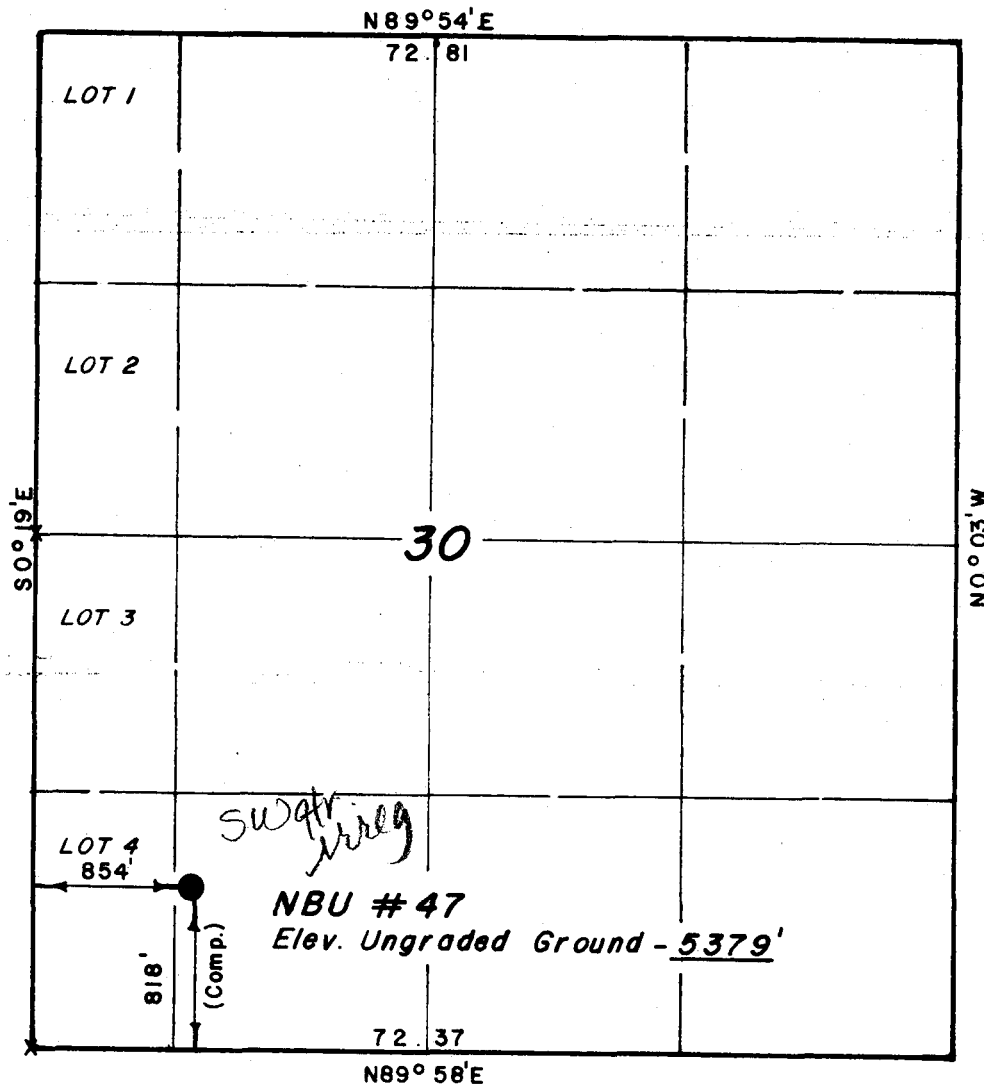
DATE

CONDITIONS OF APPROVAL, IF ANY:

T10S, R22E, S.L.B.&M.

PROJECT  
**COASTAL OIL & GAS CORP.**

Well location, **NBU #47**, located as shown  
in the SE 1/4 SW 1/4 Section 30, T10S,  
R22E, S.L.B.&M. Uintah County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Dane Stewart*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3154  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q ~ 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	12/19/80
PARTY	DA JB JS	REFERENCES	GLO Plat
WEATHER	Fair	FILE	COASTAL OIL & GAS

COASTAL OIL & GAS CORPORATION

NBU# 47

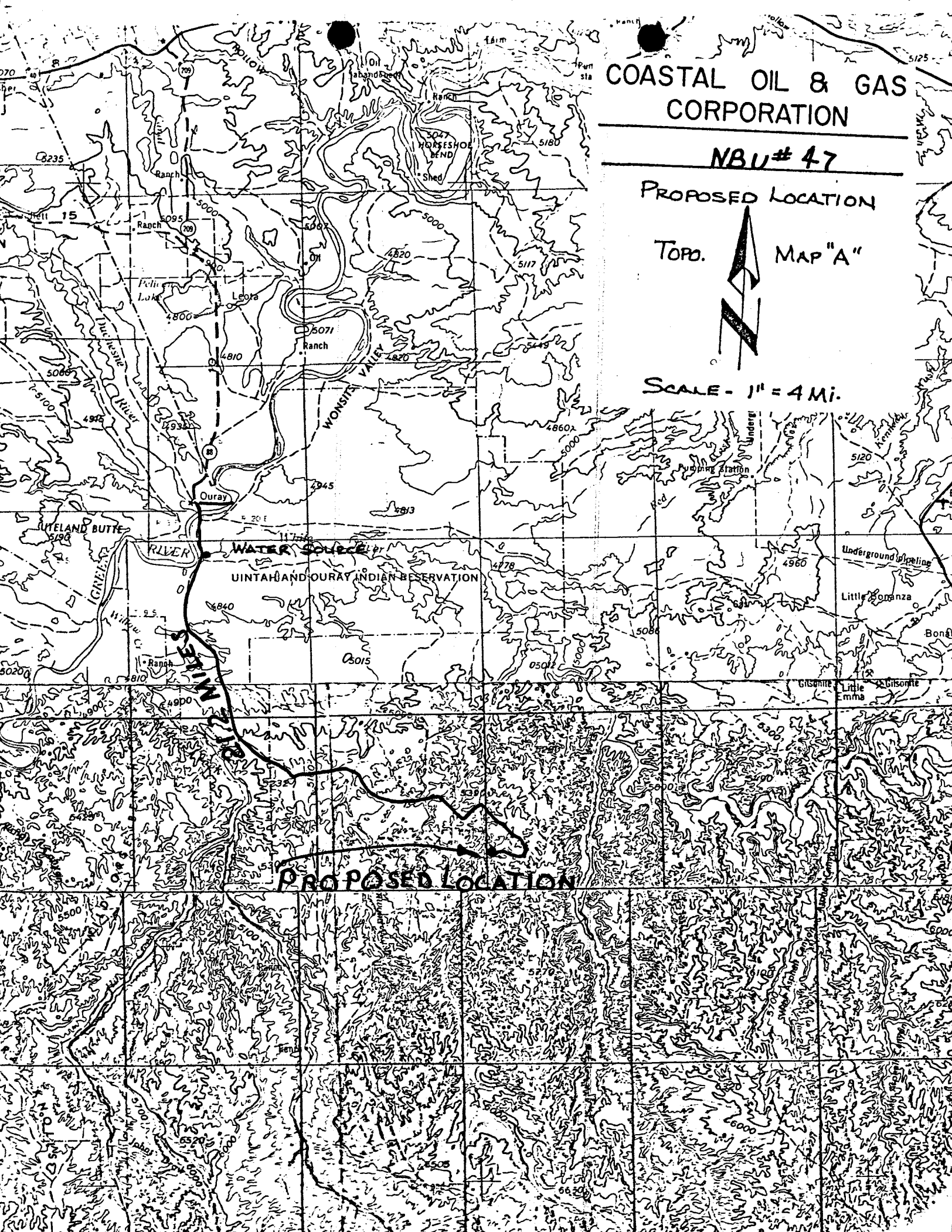
PROPOSED LOCATION

TOPO.

MAP "A"



SCALE - 1" = 4 Mi.



Coastal Oil & Gas Corporation  
Natural Buttes Unit No. 47  
Section 30, T10S, R22E  
Uintah County, Utah

10-POINT PROGRAM

1. Geologic name of surface formation:

UINTA

2. The estimated tops of important geologic markers:

GREEN RIVER 400'

WASATCH 4125'

3. The estimated depths at which anticipated water, oil, gas are expected to be encountered:

WASATCH — 4125' — GAS

4. The proposed casing program, including the size, grade, and weight per foot each string and whether new or used:

9-5/8" - K-55, ST&C - 36# NEW

4-1/2" - N-80, LT&C - 11.6# NEW

5. The Operators' minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings, and testing procedures and testing frequency:

Bottom:

3000# BOP W/4-1/2" pipe rams  
3000# BOP W/blind rams  
3000# Hydril

Top:

Grant rotating head

Manifold includes appropriate valves, positive and adjustable chokes and kill line to control abnormal pressures.

BOP's will be tested at installation and will be cycled on each trip.

6. The type and characteristics of the proposed circulating medium to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained:

6. Continued --

The well will be drilled with fresh water from surface to 4500' with a weight of 8.3 to 8.7 . From 4500' to TD the well will be drilled with fresh wtr mud with a weight from 8.7 to 10.4 . Sufficient weighting material (barite) will be on location to increase the mud weight if abnormal pressure is encountered.

7. The auxiliary equipment to be used:
- a. kelly cock
  - b. monitoring equipment on the mud system
  - c. a sub on the floor with a full opening valve to be stabbed into the drill pipe when the kelly is not in the string.

8. The testing, logging and coring program to be followed:
- No DST's are planned
  - No cores are expected to be cut.

LOGS: Dual Induction Laterolog  
Compensated Neutron-Formation Density

9. Any anticipated abnormal pressures or temperatures expected to be encountered:
- No abnormal pressures or temperatures expected
  - No hydrogen sulfide expected

10. The anticipated starting date and duration of the operation:
- February 15, 1981 three week duration.



COASTAL OIL & GAS CORPORATION

13 Point Surface Use Plan

for

Well Location

N.B.U. #47

Located In

Section 30, T10S, R22E, S.L.B. & M.

Uintah County, Utah

COASTAL OIL & GAS CORP.  
N.B.U. #47  
Section 30, T10S, R22E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach COASTAL OIL & GAS CORP., well location site N.B.U. #47 located in the SE $\frac{1}{4}$  SW $\frac{1}{4}$  Section 30, T10S, R22E, S.L.B. & M., Uintah County, Utah:

Proceed Westerly out of Vernal, Utah along U.S. Highway 40 - 14 miles to the junction of this road and Utah State Highway 209; proceed South along Utah State Highway 209 - 7 miles more or less to the junction of this Highway and Utah State Highway 88; proceed South along Utah State Highway 88 - 10 miles to Ouray, Utah; proceed along South on a county road, known as the Seep Ridge Road, + 11.7 miles to the junction of this road and a road to the East, known as the Bitter Creek road. Proceed East along this road 9.7 miles to its junction with a road to the South; proceed Southerly along this road 0.7 miles to the beginning of the proposed access road (to be discussed in Item #2).

The Highways mentioned in the foregoing paragraph are bituminous surfaced roads to Ouray, Utah at which point the County road is surfaced with native asphalt, to the oil field service road.

The aforementioned dirt oil field service road and other roads in the vicinity are constructed out of native materials that are prevalent to the areas they are located in and range from clays to a sandy-clay shale material.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and the production phase of this well at such time that production is established.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well, will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing road described in Item #1 in the SW $\frac{1}{4}$  SE $\frac{1}{4}$  Section 29, T10S, R22E, S.L.B. & M., and proceeds in a Westerly direction 1.4 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 $\frac{1}{2}$  to 1 slopes and terraced.

2. PLANNED ACCESS ROAD - cont...

The road will be centerline flagged prior to the commencement of construction.

There will be two dry wash drainage crossings required along this access road, they will be placed according to specifications found in the Oil & Gas Surface Operations Manual.

The grade of this road is relatively flat but will not exceed 8%. This road will be constructed from native borrow accumulated during construction.

It is not anticipated at this time that there will be any turnouts required along this road, however, if at the time of the onsite inspection, it is determined that one is necessary, then it will be constructed according to the specifications for turnout installation in the Oil & Gas Surface Operation Manual.

There are no fences encountered along this road.

There will be no cattleguards required.

All lands involved under this action are under B.L.M. jurisdiction.

The vegetation of this route consists of sparse amounts of sagebrush, rabbitbrush, some grasses, and cacti with large areas that are devoid of vegetation.

3. EXISTING WELLS

There is one producing gas well within a one-mile radius of this location site. It belongs to BELCO PETROLEUM CORP. See Topographic Map "B" for the location of this well relative to the proposed location site.

At this time there are no known water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observation wells for other resources located within a one-mile radius of this location site.

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

At the present time there are no other COASTAL OIL & GAS CORP. Production facilities, and gas gathering lines, tank batteries, oil gathering lines, injection lines or disposal lines within a one-mile radius.

In the event that production of this well is established the existing area of the location will be utilized for the establishment of the necessary production facilities.

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to these facilities.

COASTAL OIL & GAS CORP.  
N.B.U. #47  
Section 30, T10S, R22E, S.L.B. & M.

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES - cont.--.

The area will be built if possible, with native materials and if these materials are not available, then the necessary arrangements will be made to get them from private sources.

The proposed gas flowline will be an 18' right-of-way, it is anticipated that this line will run in a Northerly direction approximately 1.1 miles to N.B.U. #17. All necessary permits will be obtained when preparations are being made for this flowline.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "A".

Water to be used for the drilling and production of this well will be hauled from the White River in Section 4, T9S, R20E, S.L.B. & M. This water will be hauled by truck over existing roads and the proposed access road..

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies are notified.

There will be no water well drilled at this location site.

6. SOURCES OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS OF HANDLING WASTE DISPOSAL

A reserve pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be contained in a portable trash basket. Non-flammable material such as cuttings, salts, chemicals, etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the reserve pit will be fenced on three sides. Upon completion of drilling the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted.

7. METHODS OF HANDLING WASTE DISPOSAL - cont...

A portable chemical toilet will be supplied for human waste.

All produced oil from this well will be contained in the storage tank and will be sold. Water if any which is produced will be run into a reserve pit as required in the NTL-2B Regulations.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached location layout sheet.

The B.L.M. Representative shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet). When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Fenced around pits are to be removed upon completion of drilling activities and all waste being contained in the trash basket shall be hauled to the nearest sanitary landfill. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. Representative when the moisture content of the soil is adequate for germination. The lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A".)

The area slopes from the rim of the Book Cliff Mountains to the South to the White River to the North, and is a portion of the Road Plateau. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

11. OTHER INFORMATION - cont...

The majority of the washes and streams in the area are non-perennial in nature with the only one in the area having a year-round flow being the White River to the North, of which the numerous washes, draws and non-perennial streams are tributaries to.

The majority of the surrounding drainages are of a non-perennial nature with normal flow limited to the early spring and extremely rare heavy thunderstorms, or rainstorms of high intensity that lasts over an extended period of time and are extremely rare in nature as the normal annual precipitation is only 8".

All drainages in the immediate area are non-perennial streams and flow to the North and are tributaries to the White River.

The soils of this semi-arid area are of the Uintah Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravels surfaces) and the visible geologic structure consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poor gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates and shales).

Due to the low precipitation average, climate conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid region we are located in and in the lower elevations of the Uintah Basin. It consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti and large areas of bare soils devoid of any growth in the areas away from and in the vicinity of non-perennial streams and along the areas that are formed along the edges of perennial streams, cottonwood, willows, tamarack sagebrush, rabbitbrush, grasses and cacti can be found.

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to this area.

The birds of the area are raptors, finched, ground sparrows, magpies, crows and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area - (See Topographic Map "B").

N.B.U. #47 location site sits on a relatively steep hillside above a non-perennial drainage which drains to the Northwest into Sand Wash.

The geologic structure of the location is of Uintah Formation and consists of light brownish-gray clay (SP-PL) with some sandstone outcrops.

The ground slopes from the North through the location to the South at approximately an 8% grade into a small non-perennial drainage which drain to the North into Sand Wash, which drains into the White River.

COASTAL OIL & GAS CORP.

N.B.U. #47

Section 30, T10S, R22E, S.L.B. & M.

11. OTHER INFORMATION - cont...

The location is covered with some sagebrush and grasses.

The total surface ownership affected by this location is owned by the B.L.M.

There are no occupied dwellings or other facilities of this nature in the general area. /

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

F. W. Heiser  
COASTAL OIL & GAS CORP.  
P.O. Box 749  
Denver, CO 80201

1-303-572-1121

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar, with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by (Coastal Oil & Gas Corp.) and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

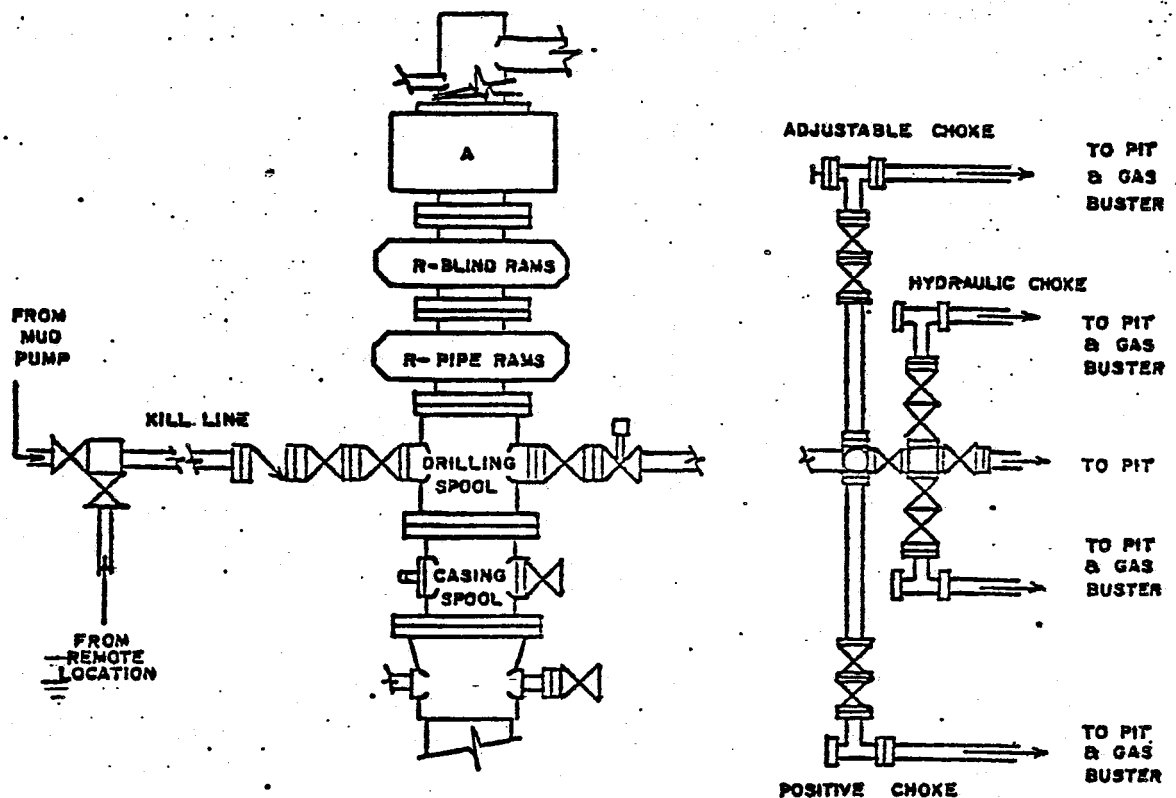
\_\_\_\_\_  
DATE



\_\_\_\_\_  
F. W. Heiser  
Drilling Manager

3000 psi

psi Working Pressure BOP's



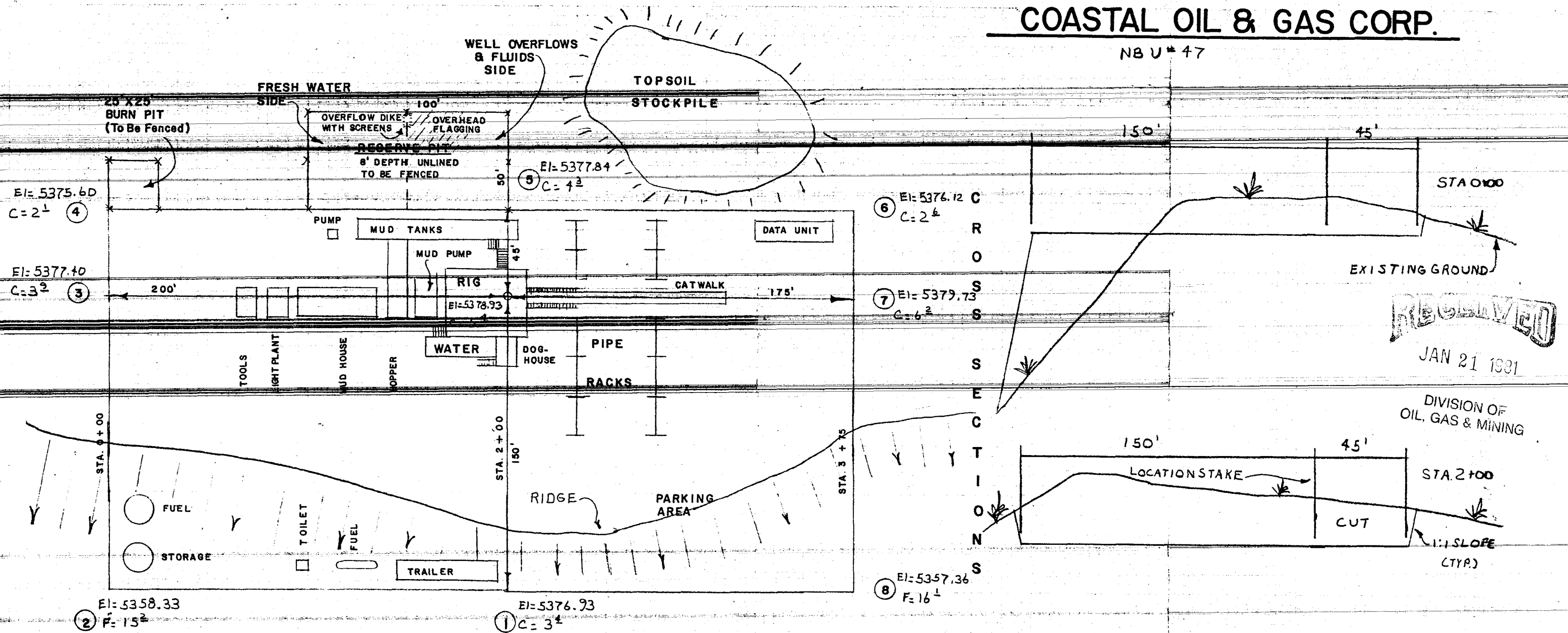
### Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test the following to rated pressure:
  - a) inside blowout preventer
  - b) lower kelly cock
  - c) upper kelly cock
  - d) stand pipe valve
  - e) lines to mud pump
  - f) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure.
- 8) Test kill line valves to rated pressure.



# COASTAL OIL & GAS CORP.

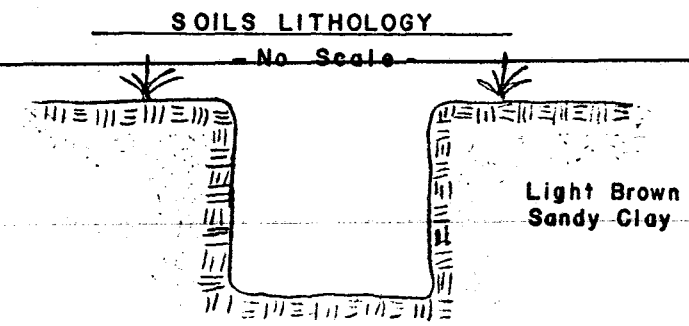
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JAN 21 1991

DIVISION OF OIL, GAS & MINING

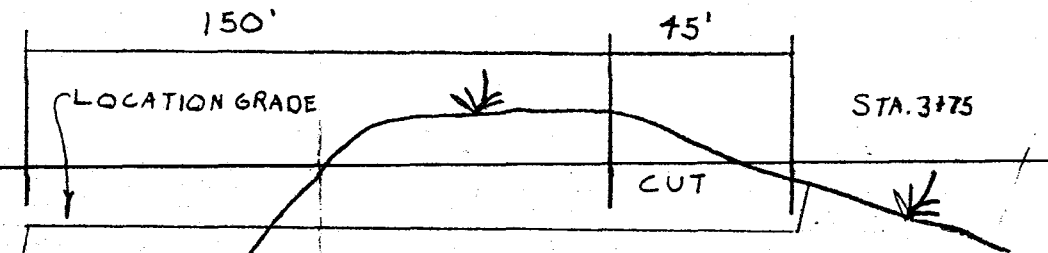


SCALE - 1" = 50'

WIND EAST

SCALE

1" = 50'

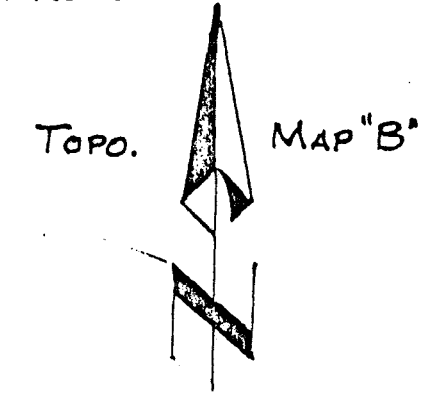


**APPROXIMATE YARDAGES**  
Cubic Yards of Cut - 8,047  
Cubic Yards of Fill - 7,308

COASTAL OIL & GAS CORPORATION

NBU #47

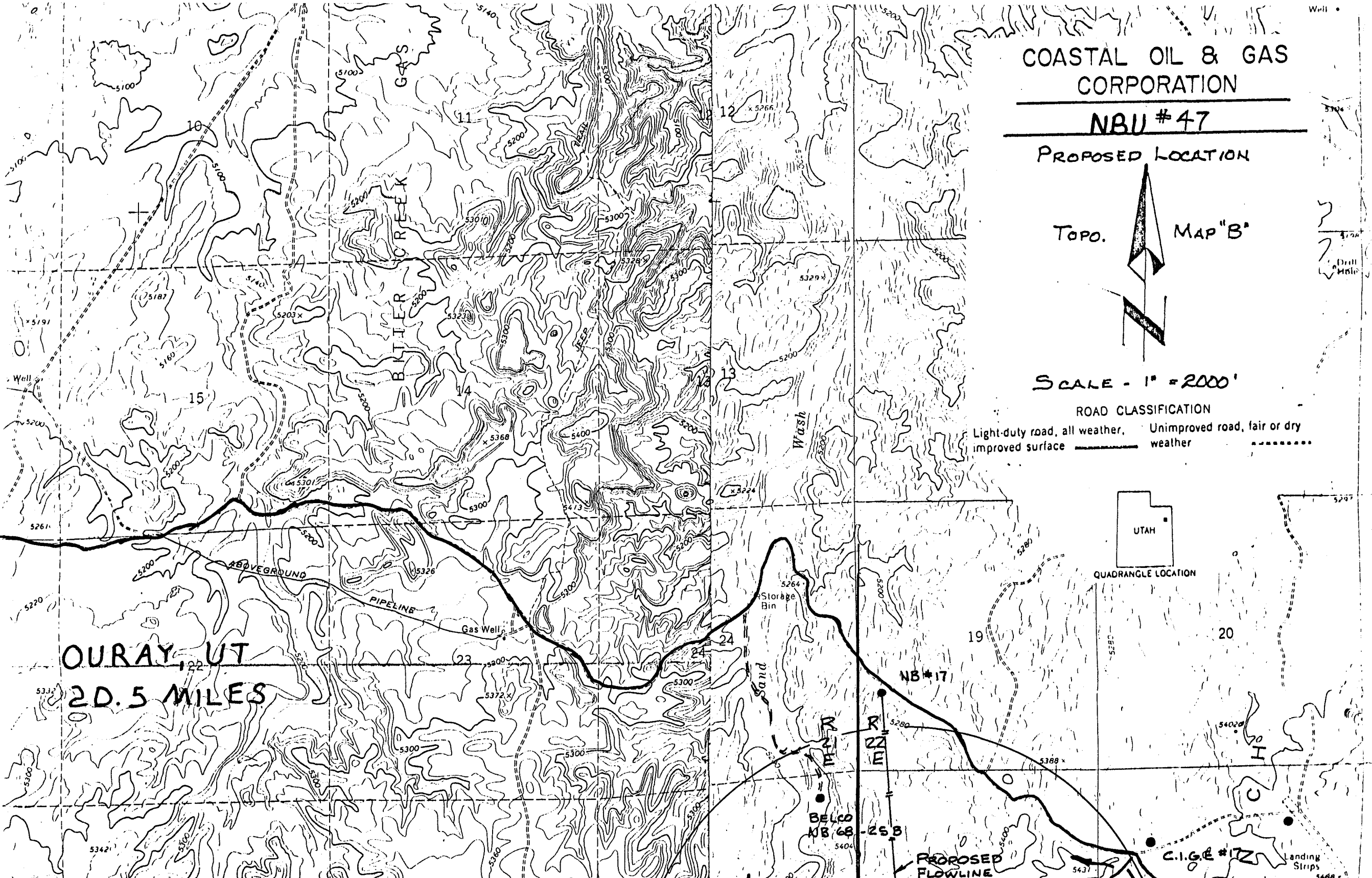
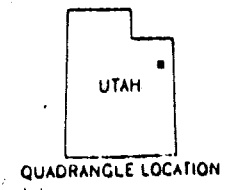
PROPOSED LOCATION



SCALE - 1" = 2000'

ROAD CLASSIFICATION

Light-duty road, all weather, improved surface Unimproved road, fair or dry weather



OURAY, UT  
20.5 MILES

BELO  
NB #68  
5404

PROPOSED  
FLOWLINE

C.I.G.E #17

Landing  
Strips

NBU #47

PROPOSED ACCESS.  
ROAD 1.4 MILES

DRY WASH DRAINAGE  
CROSSINGS  
(CULVERTS MAY  
BE REQUIRED)

TIOS  
TUS

EA

Prospects <sup>x</sup> <sup>x</sup> <sup>x</sup> <sup>x</sup> <sup>x</sup>

**\*\* FILE NOTATIONS \*\***

DATE: Jan. 21, 1981  
OPERATOR: Coastal Oil & Gas Corp.  
WELL NO: NBU # 47  
Location: Sec. 30 T. 10S R. 22E County: Wintan

File Prepared: ☐

Entered on N.I.D: ☐

Card Indexed: ☐

Completion Sheet: ☐

API Number 43-047-30873-1534

**CHECKED BY:**

Petroleum Engineer: M. J. Minder 1-22-81

Director: \_\_\_\_\_

Administrative Aide: Approved in NBU

**APPROVAL LETTER:**

Bond Required: ☐

Survey Plat Required: ☐

Order No. \_\_\_\_\_

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation ☒

Plotted on Map ☒

Approval Letter Written ☒

Hot Line ☒

P.I. ☒

January 22, 1981

Coastal Oil & Gas Corporation  
P. O. Box 749  
Denver, Colorado 80201

Re: Well No. Natural Buttes Unit #47  
Sec. 30, T. 10S, R. 22E, SE SW, (Irregular section)  
Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 553-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (Aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-047-30873.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder  
Petroleum Engineer

/ko  
cc: USGS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐

2. NAME OF OPERATOR  
Coastal Oil & Gas Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 749, Denver, Colorado 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 818' FSL / 854' FWL (SE SW)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(other) Proposed Gas Well Production Hookup

5. LEASE  
U-0132568-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME  
Natural Buttes Unit

8. FARM OR LEASE NAME  
Natural Buttes Unit

9. WELL NO.  
Natural Buttes Unit No. 47

10. FIELD OR WILDCAT NAME  
Natural Buttes Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 30-T10S-R22E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-30534

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5379' Ungr. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SUPPLEMENT TO APPLICATION FOR PERMIT TO DRILL

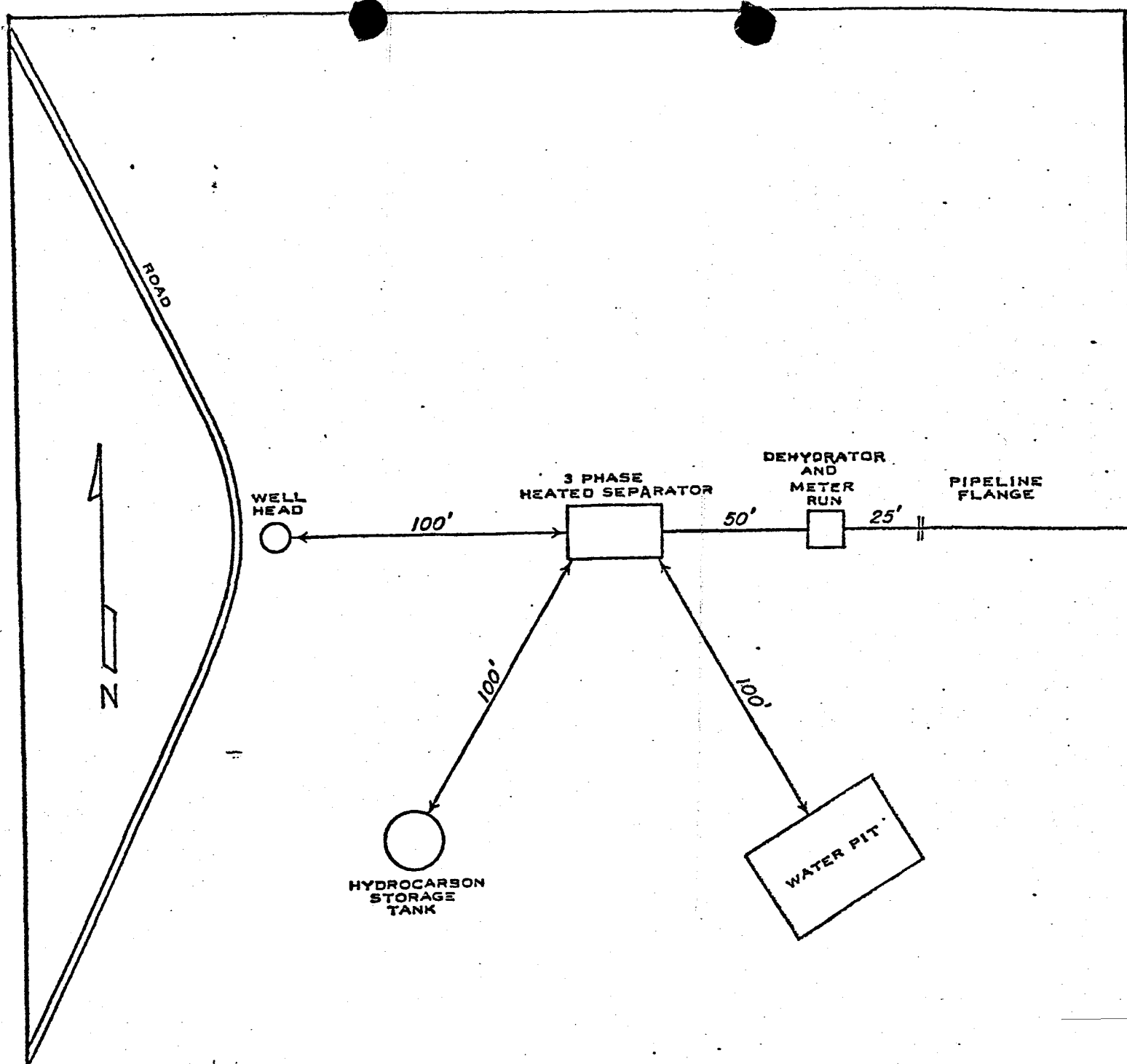
- (1) Proposed Gas Well Production Hookup
  - A Typical Well Head Installation
  - B Typical Main Lines and Pipe Anchor Detail
- (2) Proposed Pipeline Map
- (3) Proposed Road and Flow Line and Pipeline Right of Way

For on-site Contact: Ira K. McClanahan at (303) 473-2300  
Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

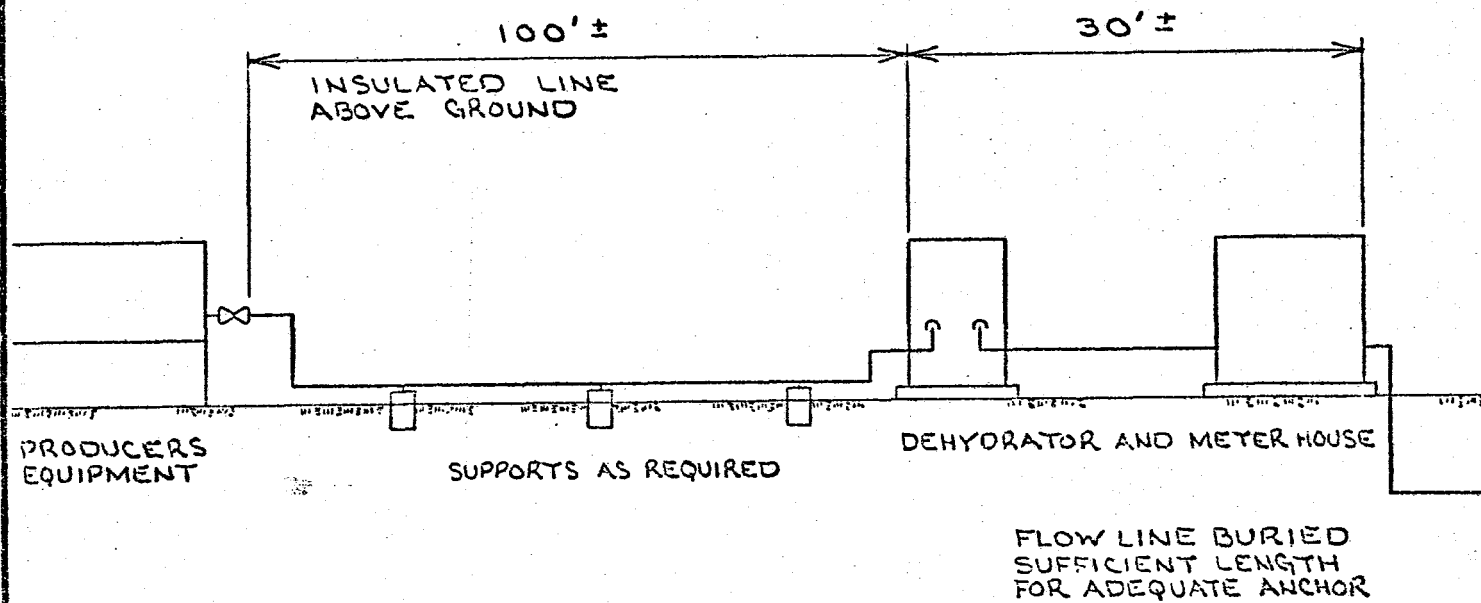
SIGNED F. R. Midkiff District Production Manager DATE March 16, 1981  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



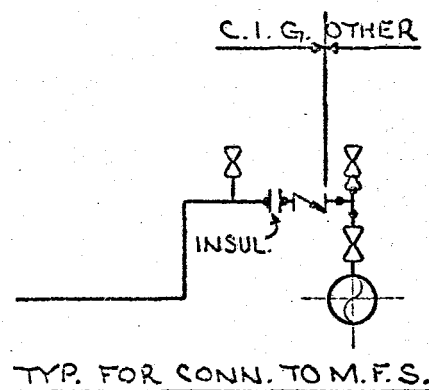
COASTAL OIL & GAS CORPORATION  
DENVER, COLORADO

Natural Buttes Unit No. 47  
Section 30-T10S-R22E  
Uintah County, Utah



							Colorado Interstate Gas Co.	
							COLORADO SPRINGS, COLORADO	
							TYPICAL WELL HEAD INSTALLATION	
							NATURAL BUTTES FIELD	
							UINTAH COUNTY, UTAH	
NO.	C. O. NO.	DESCRIPTION	DATE	BY	CHK.	APPR.	SCALE: NONE	DRAWN: RWP
REVISIONS							DATE: 7-19-77	CHECK: c o. 23858
							115FP-2 1/8	





Colorado Interstate Gas Co.  
COLORADO SPRINGS, COLORADO

TYPICAL CONNECTION TO MAIN  
LINES AND PIPE ANCHOR  
DETAIL - NATURAL BUTTES FIELD  
UINTA COUNTY, UTAH

SCALE: NONE DRAWN: RWP APP: MM 115 EP-1 1/2

# ESTIMATE SKETCH

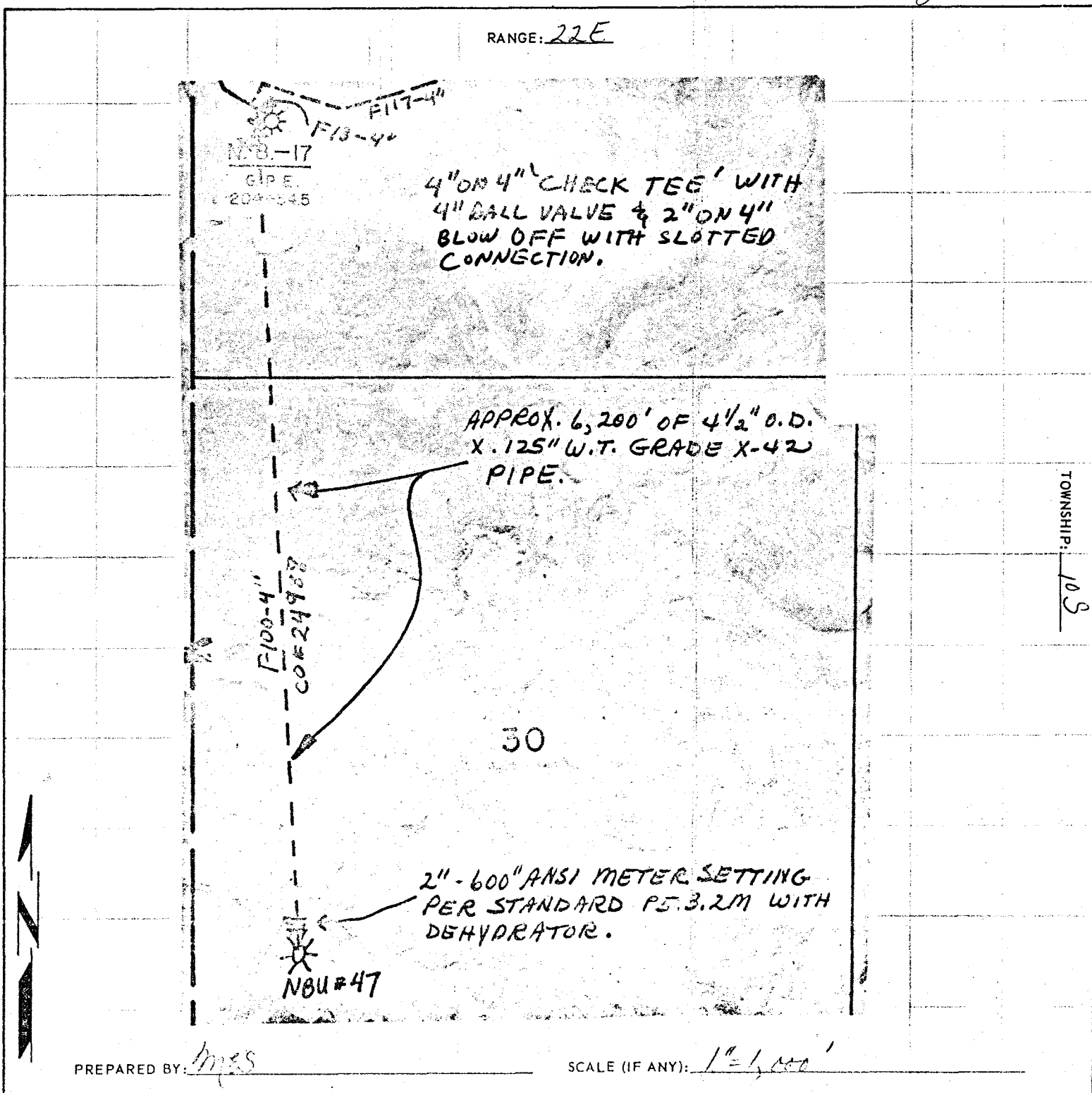
DATE: 2-6-87  
STARTING DATE: \_\_\_\_\_  
EST. COMP. DATE: \_\_\_\_\_  
☐ COMPANY ☒ CONTRACT

☒ COLORADO INTERSTATE GAS COMPANY  
☐ NORTHWEST PIPELINE CORPORATION

W. O. NO.: \_\_\_\_\_  
REVISION NO.: \_\_\_\_\_  
BUDGET NO.: \_\_\_\_\_  
RELATED DWG.: 115FU-1E

LOCATION: SW SW Section 30-10S-22E COUNTY: Mintak STATE: Utah  
DESCRIPTION OF WORK: Connect NBU 47 Natural Butte Field

REQUESTED BY: \_\_\_\_\_ APPROXIMATE MILEAGE: \_\_\_\_\_ PROJECT ENGINEER: JJK



Statement for permit to lay flow line, to be included with application for Drilling Permit:

Upon approval of all concerned regulatory agencies, CIG proposes to install a surface flow line from NBU #47 in a northerly direction through the W/2 of Section 30 and the SW/4 of Section 19, connecting to Line F13-4" in the SW/4 of Section 19, all in 10S-22E. The line will be approximately 6,200' long, as shown on the attached sketches.

Pipe will be 4-1/2" O.D. x .125" W.T., Grade X-42 EW. It will be butt-welded in place, using portable electric welding machines, and will be laid aboveground except where burial is necessary for road crossing, ditches, or other obstructions. Magnesium anodes will be installed at the dehydrator, meter setting, road crossings, underground piping at stream crossings, and at producer's separator for corrosion protection.

CIG will connect to producer's separator and install dehydration and metering facilities within 100' of the connection.

Some damage will be incurred by trucks transporting pipe and welding equipment over the pipeline route, but surface disturbance will be held to a minimum.

**DUPLICATE**  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN **DUPLICATE**  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</b>				5. LEASE DESIGNATION AND SERIAL NO. U-0132568-A	
1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				7. UNIT AGREEMENT NAME Natural Buttes Unit	
2. NAME OF OPERATOR Coastal Oil & Gas Corporation				8. FARM OR LEASE NAME Natural Buttes Unit	
3. ADDRESS OF OPERATOR P. O. Box 749, Denver, Colorado 80201				9. WELL NO. Natural Buttes Unit No. 47	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 818' FSL / 854' FWL (SE SW) At proposed prod. zone Same				10. FIELD AND POOL, OR WILDCAT Natural Buttes Field	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 15 miles SE of Ouray, Utah				11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Section 30-T10S-R22E	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 38'		16. NO. OF ACRES IN LEASE 560		17. NO. OF ACRES ASSIGNED TO THIS WELL 160	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6520'		19. PROPOSED DEPTH 6000' (Wasatch)		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5379' Ungr. Gr.				22. APPROX. DATE WORK WILL START* February 15, 1981	
23. PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
12-1/4"	9-5/8"	36#	200'	125 sacks	
8-3/4", 7-7/8"	4-1/2"	11.6#	6000'	Circulate cement back to Surface	

Fresh Water Aquifers will be protected when the long string is run and cement is circulated back to surface.

Please see the following supplemental information:

- (1) 10-Point Program
- (2) 13-Point Program
- (3) BOP Schematic
- (4) Survey Plat

Gas Well Production Hookup to follow on Sundry Notice.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

F. W. Heiser

TITLE Drilling Manager

DATE January 16, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (Orig. Sgd.) R. A. Henricks

FOR E. W. GUYNN  
DISTRICT ENGINEER

DATE MAR 27 1981

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

\*See Instructions On Reverse Side

NOTICE OF APPROVAL

FLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-A  
DATED 1/1/80

ST. OG

United States Department of the Interior  
Geological Survey  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, Utah 84104

## NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Coastal Oil and Gas Corporation  
Project Type Gas Well Drilling  
Project Location 818' GSL 854' FWL Section 30, T. 10S, R. 22E  
Well No. 47 Lease No. U-0132568-A  
Date Project Submitted January 21, 1981

FIELD INSPECTIONDate February 20, 1981Field Inspection  
ParticipantsGreg Darlington USGS, VernalCory Bodman BLM, VernalDempsey Day Coastal Oil and GasFloyd Murray D. E. Casada ConstructionRelated Environmental Documents: Unit Resource Analysis, Seep RidgePlanning Unit, BLM, Vernal

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

March 3, 1981

Date Prepared

Gregory Darlington  
Environmental Scientist

I concur

3/3/81  
Date

Ed Luy  
District Supervisor

Typing In 3-2-81 Typing Out 3-2-81

PROPOSED ACTION:

Coastal Oil and Gas Corporation proposes to drill the Natural Buttes Unit #47 well, a 6000' test of the Wasatch formation for gas. An access road of 1.4 miles length will be needed for the project. This would be an 18' crown road. The pad would be situated on a narrow ridgetop and would be 195' by 375' with the corners #2 and #8 somewhat rounded off because of the steepness of the ridge on the south side. The reserve pits would be 50' by 100' by at least 10' deep. The new access road would require 3.1 acres and the pad and pits would require 1.8 acres of new disturbance. A 1.1 mile flowline route for a production hookup <sup>also</sup> is proposed in the APD.

RECOMMENDED APPROVAL CONDITIONS:    /

The operator agrees to accept and adhere to:

1. BLM Stipulations
2. Lease Stipulations
3. Provide adequate logs of other potentially valuable minerals as requested by the Mineral Evaluation Report and Mining Report.

FIELD NOTES SHEET

Date of Field Inspection:

February 20, 1981

Well No.:

47

NBU

Lease No.:

U-0132568-A

Approve Location:

☒

Approve Access Road:

☒

Modify Location or Access Road:

Several culverts on low water crossings

Oil Pipeline Route

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. Violate Federal, State, Local, or Tribal Laws

If this project is not eligible for Categorical Exclusion circle the numbers of the above criteria requiring the preparation of an EA.

Comments and special conditions of approval discussed at onsite: (include local topography) 1.4 mile access road

1.1 mile proposed flowline

# ② and ⑧ ~~Shallow~~ canals might be contoured off on pad.

small pit will be deeper 10' + and 50' x 100' approx.

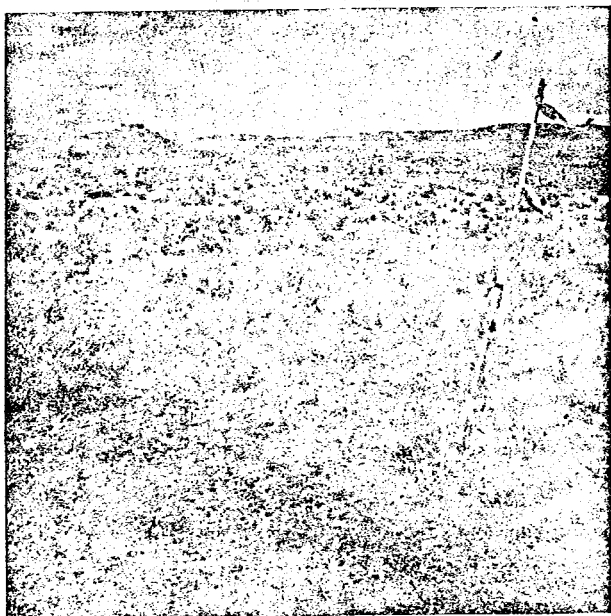
# CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety							1, 2, 4, 6		
2. Unique charac- teristics							1, 2, 4, 6		
3. Environmentally controversial							1, 2, 4, 6		
4. Uncertain and unknown risks							1, 2, 4, 6		
5. Establishes precedents							1, 2, 4, 6		
6. Cumulatively significant							1, 2, 4, 6		
7. National Register historic places							1, 6		
8. Endangered/ threatened species							1, 6		
9. Violate Federal, State, local, tribal law							1, 2, 4, 6		



# CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. USGS conditions of approval.



North View  
NBU #47



North View From Corner 4  
NW Corner. NBU #47



# United States Department of the Interior

IN REPLY REFER TO

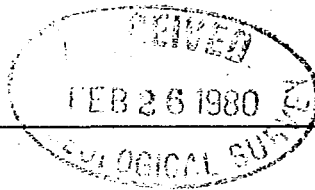
T & R  
U-802

BUREAU OF LAND MANAGEMENT  
VERNAL DISTRICT OFFICE  
170 South 500 East  
Vernal, Utah 84078

February 25, 1981

Ed Guynn, District Engineer  
USGS, Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

Re: Coastal Oil & Gas Corp.  
Natural Buttes Unit  
Well # 39 Sec 29, T10S, R21E  
Well # 40 Sec 35, T10S, R21E  
Well # 43 Sec 26, T10S, R20E  
Well # 46 Sec 4, T10S, R22E  
Well # 47 Sec 30, T10S, R22E



Dear Mr. Guynn:

A joint examination was made on February 20, 1981 of the above referenced well site locations and proposed access roads. We feel that the surface use and operating plans are adequate with the following stipulations:

1. Construction and maintenance of roads, rehabilitation of disturbed areas, and construction of pipeline routes, shall be in accordance with surface use standards as set forth in the brochure, "Surface Operating Standards for Oil and Gas Exploration and Development."
2. Traveling off access road rights-of-way will not be allowed. The maximum width of access road (both existing and planned) will be 30 feet total disturbed area, except where backslopes and fills require additional area. Turnouts will not be required.
3. It was agreed upon by all parties present that the applied for pad sizes are of adequate size to handle all drilling and fracturing operations.
4. The BLM must be contacted at least 24 hours prior to any construction activities.
5. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.

Continued . . . . .



6. Burn pits will not be constructed. There will be no burning or burying of trash or garbage at the well sites. Refuse must be contained and hauled to an approved disposal site.
7. A wire mesh or net type of fence, topped with at least one strand of barbed wire, will be used around the reserve pits.
8. The top 2-4 inches of topsoil will be gathered and stockpiled as addressed in the applicants APD's except for well # 47 where the topsoil will be stored between reference points # 6 and # 7.

Wells # 43, 47 and 46

We have no objections to the proposed flowline routes provided the following stipulations are followed:

1. No installation will be allowed unless this office is notified at least 24 hours prior to the start of construction.
2. The proposed gas flowline routes will not be bladed. A bulldozer may be used to assist trucks in steep terrain, drag pipeline into position and for the construction of ford type crossings on drainages which cannot otherwise be crossed. Construction of drainage crossing is the only type of surface disturbance authorized.
3. Pipeline construction shall not block, dam, or change the natural flow of any drainage.

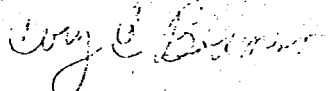
We have received archaeological reports for wells # 46 and 47, and no cultural resources were found.

We have not received cultural resource reports for wells # 40, 43 and 39. No surface disturbance will be allowed until we have received the aforementioned reports.

These activities do not jeopardize listed, threatened or endangered flora/fauna or their habitats.

The BLM representative will be Cory Bodman, 789-1362.

Sincerely,



For  
Dean L. Evans  
Area Manager  
Bookcliff Resource Area

cc: USGS, Vernal

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, O&amp;G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-0132568-AOPERATOR: Coastal O & GWELL NO. NB Unit #47LOCATION: C ½ SW ½ SW ½ sec. 30, T. 10 S, R. 22 E, SLMUintah County, Utah

## 1. Stratigraphy:

Uintah	surface
Green River	400'
Wasatch	4125'
<u>TD</u>	<u>6000'</u>

## 2. Fresh Water:

Fresh water in the Uintah. Useable (saline) water in the Birds Nest aquifer (~1300') and the Douglas Creek aquifer (~2100'). These should be protected.

## 3. Leasable Minerals:

Oil shale in the Green River. The Mahogany should occur at ~1700'.

Gas: Wasatch

Saline minerals: may occur in an 800' rock interval immediately overlying the Mahogany.

## 4. Additional Logs Needed: Adequate

## 5. Potential Geologic Hazards: None expected

## 6. References and Remarks:

Signature:

Gregory W. Wood

Date:

2-25-81

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

NAME OF COMPANY: Coastal Oil & Gas

WELL NAME: Natural Buttes Unit #47N2

SECTION NWSW 30 TOWNSHIP 10S RANGE 22E COUNTY Uintah

DRILLING CONTRACTOR Loffland

RIG # 236

SPODDED: DATE 12-6-81

TIME 7:00 AM

How Dry Hole

DRILLING WILL COMMENCE

REPORTED BY Tracie Dawe

TELEPHONE # 303-572-1121

DATE December 14, 1981 SIGNED DB

NOTICE OF SPUD

WELL NAME: NBU #47N-2

LOCATION: SE 1/4 SW 1/4 SECTION 30 T- NS R- 22E

COUNTY: Uintah STATE: Utah

LEASE NO.: U-0132568-A LEASE EXPIRATION DATE: HBP

UNIT NAME (If Applicable): Natural Buttes Unit

DATE & TIME SPUDDED: 12/6/81 7:00 A.M.

DRY HOLE SPUDDER: Ram Air Drilling

DETAILS OF SPUD (Hole, Casing, Cement, etc.): 12 1/4" hole to 220'  
Run 5 jts, 9 5/8", 36#, K-55, ST+C, 8 Rnd (220'). Cmtd with  
Howco w/ 125 sks Class 'G', 2% CaCl<sub>2</sub>, 1/4 #1st Floccle.

ROTARY RIG NAME & NUMBER: Loffland #236

APPROXIMATE DATE ROTARY MOVES IN: 12-11-81

FOLLOW WITH SUNDRY NOTICE

USGS CALLED: DATE: December 14, 1981

PERSON CALLED: Teresa Maxwell

STATE CALLED: DATE: December 14, 1981

PERSON CALLED: Debbie Beauregard

REPORTED BY: Tracey Dawe

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR  
Coastal Oil & Gas Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 749, Denver, Colorado 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 818' FSL / 854' FWL (SE SW)

AT TOP PROD. INTERVAL: Same

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

☐  
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☐  
☐  
☐  
☐  
☐  
☐  
Change TD ☒

5. LEASE

U-0132568-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Natural Buttes Unit

8. FARM OR LEASE NAME

Natural Buttes Unit

9. WELL NO.

Natural Buttes Unit No. 47

10. FIELD OR WILDCAT NAME

Natural Buttes Unit

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 30-T10S-R22E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

14. API NO.

43-047-30534

15. ELEVATIONS (SHOW DF, KDB, AND WD)

5379' Ungr. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Originally approved TD was 6600' (Wasatch). Approval is requested to change proposed TD from 6600' to 7300' (Wasatch).

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

DATE: 12/21/81

BY: CB Feight

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Marc D. Ernest TITLE Drilling Engineer DATE December 14, 1981  
Marc D. Ernest

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF SPUD

Company: Coastal Oil & Gas Co.

Caller: Tracy

Phone: \_\_\_\_\_

Well Number: 47 N 2

Location: SE SW 30-103-22E

County: Uintah State: Utah

Lease Number: U-0132568-A

Lease Expiration Date: \_\_\_\_\_

Unit Name (If Applicable): NBU

Date & Time Spudded: 12-6-81 7:00 a.m.

Dry Hole Spudder Rotary: \_\_\_\_\_

Details of Spud (Hole, Casing, Cement, etc.) 12 1/4" hole

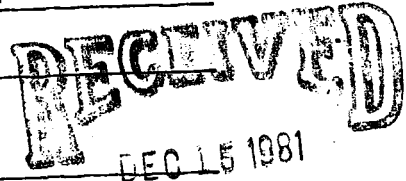
Rotary Rig Name & Number: Lofland #236

Approximate Date Rotary Moves In: 12-11-81

FOLLOW WITH SUNDRY NOTICE

Call Received By: Jim

Date: 12-14-81





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR  
Coastal Oil & Gas Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 749, Denver, Colorado 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 818' FSL / 854' FWL (SE SW)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Operations

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5. LEASE

U-0132568-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Natural Buttes Unit

8. FARM OR LEASE NAME

Natural Buttes Unit

9. WELL NO.

Natural Buttes Unit No. 47

10. FIELD OR WILDCAT NAME

Natural Buttes Unit

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 30-T10S-R22E

12. COUNTY OR PARISH

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13. STATE

Utah

14. API NO.

43-047-30534

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5379' Ungr. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Please see attached chronological for report of operations through December 15.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

H. E. Aab

TITLE Dist. Drilling Mgr DATE December 15, 1981

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other

2. NAME OF OPERATOR  
Coastal Oil & Gas Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 749, Denver, Colorado 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 818' FSL / 854' FWL (SE SW)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

SUBSEQUENT REPORT OF:

Spud

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☒

5. LEASE

U-0132568-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME  
Natural Buttes Unit

8. FARM OR LEASE NAME  
Natural Buttes Unit

9. WELL NO.  
Natural Buttes Unit No. 47

10. FIELD OR WILDCAT NAME  
Natural Buttes Unit

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 30-T10S-R22E

12. COUNTY OR PARISH  
Utah

13. STATE  
Utah

14. API NO.  
43-047-30534

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5379' Ungr. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Verbal report made to USGS (Teresa) and State (Debbie) on December 14, 1981.  
Please see attached for additional details.

RECEIVED  
DEC 17 1981

DIVISION OF  
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED H. E. Aab TITLE Dist. Drilling Mgr DATE December 14, 1981

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well <input type="checkbox"/> gas well <input checked="" type="checkbox"/> other
2. NAME OF OPERATOR Coastal Oil & Gas Corporation
3. ADDRESS OF OPERATOR P. O. Box 749, Denver, Colorado 80201
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 818' FSL / 854' FWL (SE SW) AT TOP PROD. INTERVAL: Same AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) _____	Operations <input checked="" type="checkbox"/>

5. LEASE U-0132568-A	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
7. UNIT AGREEMENT NAME Natural Buttes Unit	
8. FARM OR LEASE NAME Natural Buttes Unit	
9. WELL NO. Natural Buttes Unit No. 47	
10. FIELD OR WILDCAT NAME Natural Buttes Unit	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 30-T10S-R22E	
12. COUNTY OR PARISH Uintah	13. STATE Utah
14. API NO. 43-047-30534	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5379' Ungr. Gr.	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Please see attached chronological for report of operations December 16, 1981 through January 15, 1982.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED H. E. Aab TITLE Dist Drilling Mgr DATE January 19, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

NBU #47N-2 (COGC)

Natural Buttes Unit

Uintah County, Utah

AFE: 12572 WI: FO BI/APO

ATD: 7100' SD: 12-6-81/12-12-81

Coastal Oil &amp; Gas Corp., Oper.

Loffland #236, Contr.

9-5/8" @ 222'; 4 1/2" @ 6626';

LOCATION: 818' FSL & 854' FWL  
SE SW, Sec 30-T10S-R22E.  
Elev: 5379' GL (ungr)

TD: 7100'

PBSD: 6557'

Perf: 5884-6488' (9 holes)

1-3-82 thru 1-9-82 WO CU.1-10-82 Ran gauge ring & junk basket on slickline; tag PBSD @ 6557'.  
Cum Compl Csts: \$270.1-11-82 thru 1-15-82 WO CU.1-16-82 MI RU B & B Well Service; PU & tally & std back 5660' tbq; SDFN.1-17-82 SDFWE.1-18-82 Prep to log & perf.  
SDFWE. Cum Compl Csts: \$4475. Tot Cum Csts: \$399,989.1-19-82 Prep to brk dwn.  
RU OWP & run GR-CCL f/PBSD to 4000'; press tst csg to 6000 psi; perf Wasatch w/3-1/8" csg gun as follows: 5884' (1), 5889' (1), 5893' (1), 6461' (2), 6479' (2), 6488' (2), Neutron Density depths (9 holes). TIH & hang 2-3/8" 4.7# J-55 tbq @ 5691'; ND BOP, NU tree; SDFN. Cum Compl Csts: \$53,433. Tot: \$448,947.1-20-82 Flwg to pit after brkdwn.  
RU Western & brk dwn w/2700 gal 5% KCl wtr & 18 BS; pmp 10 bbl to est rate & 18 balls in 16 bbl w/34 bbl flush; tot 60 bbl, balled out; surge balls off perfs & pmpd 5 bbl @ 3900# @ 5.5 BPM; tot 65 bbl; AR 5.5 BPM @ 3900 psi, 15 min 900 psi; opn to pit on 16/64" CK, 1 hr FTP 150 psi, SICP 200 psi, 1" stream wtr; RD & rel service unit. Cum Compl Csts: \$58,398.1-21-82 Flwg to pit after brkdwn.  
FTP 1500, SICP 2000, 16/64" CK, 1000 MCFD (est) w/4 BWPD.1-22-82 Flwg to pit after brkdwn.  
9:45 AM TP 2100 psi, SICP 2200 psi, 16/64" CK; CK froze off; opn CK, unloaded 10-15 BW, 20 min FTP 1900, SICP 1925, 16/64" CK, unloaded add 5-7 BW.1-23-82 Flwg to pit after brkdwn.  
TP 2150, CP 2175, 18/64" CK, part froze, gas w/5-7 BW.1-24-82 SI; WO frac.  
FTP 775, SICP 850, 18/64" CK, 1500 MCFD w/1 BW; SI @ 12 AM.1-25-82 SI; WO frac.  
SITP 2135, SICP 2125; WO frac. Drop f/report until further activity.1-26-82 thru 1-29-82 SI; WO frac.1-30-82 Prep to opn to pit to clean up after frac.  
RU Western & frac Wasatch perfs 5884-6488' (9 holes) dwn tbq & tbq-csg annulus w/40,000# 20/40 sd & 80,000 gal low-residue X-linked gel: Pmpd 60 bbl of pad-form locked up @ 6000# & 1 BPM; bled off & circ hole; fin pad @ 18 BPM w/5900 psi; 1 ppg sd @ 18 BPM w/5900 psi; 2 ppg sd @ 19 BPM w/5700 psi; 3 ppg sd press brk, avg 20 BPM w/5500 psi; 4 ppg sd @ 24 BPM w/5000 psi; flush w/100 bbl 5% KCl wtr @ 24 BPM w/5200 psi; ISDP 22-0 psi, 15 min 2100 psi; SION. Cum Compl Csts: \$101,833. Tot Cum Csts: \$497,347.1-31-82 Flwg to pit after frac.  
SITP 1550, SICP 1550; opn to pit on 12/64" CK @ 1:30 PM, 15 min FTP 1400, SICP 1450, 2" stream frac wtr.2-1-82 Flwg to pit after frac.  
FTP 50, SICP 25, 12/64" CK, gas TSTM w/5-8 BW - surging; chng to 16/64" CK, FTP 25, SICP 25, 10 BW - surging. Cum Compl Csts: \$101,833.

NBU #47N-2 (COGC)

Natural Buttes Unit

Uintah County, Utah

AFE: 12572 WI: FO BI/APO

ATD: 7100' SD: 12-6-81/12-12-81

Coastal Oil &amp; Gas Corp., Oper.

Loffland #236, Contr.

9-5/8" @ 222'; 4 1/2" @ 6626';

LOCATION: 818' FSL & 854' FWL  
SE SW, Sec 30-T10S-R22E.  
Elev: 5379' GL (ungr)

TD: 7100'

12-24-81 5936'; (236'-23 hrs); Drlg.

Surv; drl; RS; drl. Drlg Brk: 5880-5894', rate 7/2/6 mpf, gas 12/245/14 units. BGG 6 units, CG 45 units. MW 9.3, vis 36, WL 12, PV 7, YP 5, Sd Tr, Sol 7, pH 10.5, Alk 0.50, Mf 1.10, CL 1500, Gels 2/4, Cake 2/32, MBT 18.5. (1 1/2" @ 5899').

12-25-81 6130'; (194'-23 1/2 hrs); Drlg.

Drl; RS; drl. No drlg brks. BGG 6 units, CG 8 units. MW 9.3, vis 36, WL 11.2, PV 7, YP 6, Sd Tr, Sol 7, pH 10.5, Alk 0.50, Mf 1.2, CL 1300, Gels 2/4, Cake 2/32, MBT 18.5, Cr 1200.

12-26-81 6277'; (147'-27 1/2 hrs); Drlg.

Drl; RS; drl; TOH; check BOP; TIH; drl. Drlg Brk: 6232-6240', rate 6.5/2.5/7.0 mpf, gas 8/120/10 units. BGG 20 units, CG 30 units, TG 1340 units. MW 9.3, vis 37, WL 12, PV 7, YP 5, Sd Tr, Sol 7, pH 11.0, Alk 0.60, Mf 1.20, CL 1400, Gels 2/4, Cake 2/32, MBT 18. (1-3/4" @ 6253').

12-27-81 6515'; (238'-23 1/2 hrs); Drlg.

Drl; RS; drl. Drlg Brk: 6364-6368', rate 6/2.5/6.6 mpf, gas 10/110/13 units; 6460-6470', rate 6.5/2.5/7 mpf, gas 9/280/16 units; 6474-6498', rate 6/1.5/6 mpf, gas 16/600/30 units. BGG 34 units, CG 45 units. MW 9.3, vis 35, WL 13.6, PV 6, YP 5, Sd Tr, Sol 7, pH 11, Alk 0.80, Mf 1.50, CL 1700, Gels 2/4, Cake 2/32, MBT 17.5.

12-28-81 6790'; (275'-23 1/2 hrs); Drlg @ 10'/hr.

Drl; RS; drl. Drlg Brks: 6628-6642', rate 5.5/2.5/3.5 mpf, gas 15/200/20 units; 6644-6652', rate 3.5/1.5/7.5 mpf, gas 20/100/8 units; 6670-6676', rate 7.0/2.5/7.0 mpf, gas 8/20/8 units; 6722-6730', rate 6.0/1.5/6.0 mpf, gas 10/220/14 units. BGG 58 units, CG 158 units. MW 9.3, vis 35, WL 12.8, PV 7, YP 7, Sd Tr, Sol 7.0, pH 10.0, Alk .70, Mf 1.40, CL 2200, Gels 3/4, Cake 2/32, MBT 17.5, Cr 1200.

12-29-81 7040'; (250'-23 1/2 hrs); Drlg.

Drl; RS; drl. Drlg Brks: 6836-6840', rate 7/3/7.5 mpf, gas 22/265/19 units; 6862-6868', rate 7/3.5/5.5 mpf, gas 19/110/20 units; 6920-6932', rate 6/3.5/7/5 mpf, gas 20/100/20 units; 6980-6984', rate 5.5/2.5/7/5 mpf, gas 20/235/30 units. BGG 16-25 units, CG 32 units. Will be at TD @ Noon today. Will move to NBU #58N-2. MW 9.4, vis 35, WL 11.2, PV 7, YP 6, Sd Tr, Sol 7, pH 10.5, Alk 0.50, Mf 1.60, CL 2500, Gels 2/4, Cake 2/32, Cr 1200, MBT 18.7.

12-30-81 TD 7100'; (60'-7 1/2 hrs); Circ & WOO.

Drl; circ &amp; cond to log; pmp pill &amp; drop surv; POH; RU Schlumberger &amp; log; ran DIL, FDC/CNL &amp; Caliper; RD loggers; TIH w/bit &amp; cond; TOH to run csg; circ &amp; cond hole &amp; WOO. BGG 20 units, CG 25 units. MW 9.5, vis 36, WL 11.2, PV 7, YP 6, Sd Tr, Sol 7, pH 10.5, Alk .5, Mf 1.6, CL 2500, Gels 2/4, Cake 2/32, MBT 18, Cr 1100. (1 1/2" @ 7100').

12-31-81 TD 7100'; ND BOP to cut off csg.

Circ &amp; WOO; pmp pill; TOH; LD DP &amp; DC; RU Parrish &amp; run 162 jnts (6628') 4 1/2" 11.6# 8rd N-80 csg; land w/shoe @ 6626', FC @ 6585'; circ w/rig pmp; RU Halliburton; cmt 4 1/2" csg w/30 bbl mud flush, 50 bbl spacer; lead w/1240 sx 50/50 Poz, 8% gel, 10% salt, .6% Halad-24, 5#/sk Gilsonite, 1/4#/sk Flocele; tail w/1560 sx 50/50 Poz, 2% gel, 10% salt, .6% Halad-24, 1/4#/sk Flocele; displ w/102 bbl 5% KCl wtr; circ +140 bbl cmt slurry to surf; PD &amp; job compl @ 1:00 AM 12-31-81; drop slip; ND BOP to cmt 4 1/2" csg. MW 9.5, vis 38.

1-1-82 TD 7100'; PBTD 6584'; WO daylight to RD RT.

Clean pits &amp; drain rig. Rig rel @ 10:00 PM 12-31-81.

1-2-82 TD 7100'; PBTD 6584'; WO daylight to RD RT.

WO daylight; RD RT; WO daylight; Will move to NBU #58N-2.

Drop f/report; WO CU.

NBU #47N-2 (COGC)  
 Natural Buttes Unit  
 Uintah County, Utah  
 AFE: WI: FO BI/APO  
 ATD: 7100' SD: 12-6-81/12-12-81  
 Coastal Oil & Gas Corp., Oper.  
 Loffland #236, Contr.  
 9-5/8" @ 222';

LOCATION: 818' FSL & 854' FWL  
 SE SW, Sec 30-T10S-R22E.  
 Elv: 5379' GL (ungr)

- 12-13-81 967'; (745'-17½ hrs); Drlg @ 42'/hr.  
 Drl out MH; PU BHA; tag cmt @ 216'; drl cmt 216-222'; drl; Spudded 7-7/8" hole @ 12:00 Noon 12-12-81; surv; drl. MW 8.4, vis 27, Circ res pit. (1° @ 504').
- 12-14-81 1920'; (953'-23 hrs); Drlg @ 35'/hr.  
 Drl; surv; drl; surv; drl. MW 8.4, vis 27, Circ res pit. (1° @ 1061') (1° @ 1536').
- 12-15-81 2720'; (800'-22 hrs); Drlg.  
 Drl; surv; drl; RS; drl; surv; drl; surv; drl. BGG 30 units, CG 130 units. MW 8.4, vis 27, Circ res pit. (1° @ 2069') (MR @ 2564') (1° @ 2595').
- 12-16-81 3538'; (818'-23 hrs); Drlg w/full retns.  
 Drl; RS; drl; surv; drl. BGG 70 units, CG 120 units. Mud=wtr. (1° @ 3132').
- 12-17-81 4113'; (575'-21 hrs); Drlg @ 17'/hr.  
 Surv; drl; RS; drl; clean tanks, prep to mud up; drl; surv; drl. BGG 150 units, CG 180 units, 260 units dwn time gas. MW 8.8, vis 36, WL 12.8, PV 10, YP 4, Sd Tr, Sol 4, pH 10.5, Alk .3, MF 1.1, CL 1000, Gels 3/7, Cake 2/32, Cr 1000. (1° @ 3538') (1° @ 4038').
- 12-18-81 4385'; (272'-18 hrs); Drlg 7-7/8" hole w/full retns.  
 Drl; TOH w/bit #1; dress bit #2 & check BOP; RS; TIH w/bit #3 (F3); drl. BGG 60 units, CG 70 units, TG 920 units. MW 8.8, vis 36, WL 13.6, PV 6, YP 7, Sd Tr, Sol 5, pH 10, Alk .3, MF .7, CL 1100, Gels 2/4, Cake 2/32, Cr 900, MBT 17.5.
- 12-19-81 4748'; (363'-22 hrs); Drlg @ 16'/hr.  
 Drl; rig rep-brkn rot chain; RS; drl; surv; drl. BGG 16 units, CG 81 units. Drlg Brks: 4598-4620', rate 4/2/4 mpf, gas 15/20/15 units; 4658-4680', rate 5/2/5 mpf, gas 18/22/18 units. MW 9.3, vis 37, WL 12.0, PV 9, YP 6, Sd Tr, Sol 6.0, pH 10.0, Alk .20, MF .60, CL 900, Gels 2/5, Cake 2/32, Cr 1200, MBT 18.75. (1° @ 4602').
- 12-20-81 4996'; (248'-17½ hrs); TIH w/bit #3.  
 Drl; RS; drl, lost 400# pmp press; pmpd flag (softline) - bit locked up; TOH; found bit #2 - 2 jets washed out, all cones ready to fall off; dress bit; check BOP; TIH w/bit #3. BGG 8 units, CG 10 units. Drlg Brk: 4970-4988', rate 5/2½/5 mpf, gas 8/10/8 units. MW 9.3, vis 34.
- 12-21-81 5258'; (262'-21½ hrs); Drlg.  
 Fin TIH w/bit #3; drl; RS; drl; surv; drl. BGG 12 units, CG 14 units. Drlg Brks: 5098-5118', rate 5/3/5 mpf, gas 3/6/4 units; 5140-5144', rate 5.5/3/6.5 mpf, gas 4/6/4 units; 5172-5188', rate 6/3/6 mpf, gas 4/8/4 units. MW 9.2, vis 33, WL 12, PV 4, YP 4, Sd Tr, Sol 6, pH 10, Alk 0.30, MF 0.90, CL 800, Gels 2/4, Cake 2/32, Cr 1200, MBT 20. (1½° @ 5168').
- 12-22-81 5465'; (207'-22½ hrs); Re-pack swiv.  
 Drl; RS; drl; re-pack swiv. BGG 12 units, CG 18 units. No drlg brks. MW 9.3, vis 35, WL 16, PV 4, YP 3, Sd Tr, Sol 6.0, pH 9.5, Alk .20, MF .80, CL 1200, Gels 2/4, Cake 2/32, MBT 18.75, Cr 1000.
- 12-23-81 5700'; (235'-22½ hrs); Drlg @ 10'/hr.  
 Re-pack swiv; drl; RS; drl. BGG 7 units, CG 8 units. No drlg brks. MW 9.4, vis 37, WL 12.0, PV 6, YP 6, Sd Tr, Sol 8.0, pH 11.0, Alk .60, MF 1.20, CL 1200, Gels 2/5, Cake 2/32, MBT 18.75, Cr 1200.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR  
Coastal Oil & Gas Corporation
3. ADDRESS OF OPERATOR  
P. O. Box 749, Denver, Colorado 80201
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 818' FSL / 854' FWL (SE SW)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

SUBSEQUENT REPORT OF:

- ☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

Operations ☒

5. LEASE  
U-0132568-A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A
7. UNIT AGREEMENT NAME  
Natural Buttes Unit
8. FARM OR LEASE NAME  
Natural Buttes Unit
9. WELL NO.  
Natural Buttes Unit No. 47
10. FIELD OR WILDCAT NAME  
Natural Buttes Unit
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 30-T10S-R22E
12. COUNTY OR PARISH  
Uintah
13. STATE  
Utah
14. API NO.  
43-047-30534
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5379' Ungr. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Please see attached chronological for report of operations January 16 through February 15, 1982.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED H. E. Aab TITLE Dist Drilling Mgr DATE February 16, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number NBU #47N2

Operator COASTAL OIL & GAS CORPORATION Address P. O. BOX 749, DENVER, CO 80201

Contractor LOFFLAND BRO. Address P. O. BOX 3565, GRD. JCT. CO 81502

Location SE 1/4 SW 1/4 Sec. 30 T: 10S R: 22E County UINTAH

Water Sands

	<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
	From To	Flow Rate or Head	Fresh or Salty
1.	<u>NONE REPORTED</u>		
2.	<u></u>		
3.	<u></u>		
4.	<u></u>		
5.	<u></u>		

(Continue of reverse side if necessary)

Formation Tops WASATCH FORMATION 4076' (+1318')

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR						7. UNIT AGREEMENT NAME	
COASTAL OIL & GAS CORPORATION						NATURAL BUTTES UNIT	
3. ADDRESS OF OPERATOR						8. FARM OR LEASE NAME	
P. O. BOX 749, DNEVER, CO 80201						NATURAL BUTTES UNIT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						9. WELL NO.	
At surface 818' FSL & 854' FWL (SE SW)						NBU #47N2	
At top prod. interval reported below SAME						10. FIELD AND POOL, OR WILDCAT	
At total depth SAME						NATURAL BUTTES FIELD	
14. PERMIT NO.						12. COUNTY OR PARISH	
43-047-30534						13. STATE	
DATE ISSUED						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
2-17-82						SECTION 30-T10S-R22E	
15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, REB, RT, GR, ETC.)*	
12-6-81		12-29-81		2-9-82		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	
7100'		6557'		N/S		ROTARY TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						CABLE TOOLS	
5884' - 6488' WASATCH						25. WAS DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN						YES	
DIT EDC-CNL						27. WAS WELL CORED	
						NO	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
9-5/8"		36#		222'		12 1/4"	
4 1/4"		11.6#		6626'		7-7/8"	
						CEMENTING RECORD	
						125 SX	
						2800 SX	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
						SCREEN (MD)	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2-3/8"		5691'					
31. PERFORATION RECORD (Interval, size and number) W/3-1/8"							
CSG GUN AS FOLLOWS:							
5884' (1)		6461' (2)					
5889' (1)		6479' (2)					
5893' (1)		6488' (2)					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
5884' - 6488'				BRKDOWN w/18,000 GAL 5%KCl WTR.			
				FRAC w/40,000 GAL GEL &			
				80,000 LBS. 20/40 SAND.			
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
2-9-82		FLOWING				SI WOPLC	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
2-9-82		24		16/64"		OIL—BBL.	
						GAS—MCF.	
						WATER—BBL.	
						GAS-OIL RATIO	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL GRAVITY-API (CORR.)	
1050		1100		0		2000	
						2	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
VENTED						KARL ODEN	
35. LIST OF ATTACHMENTS							
NONE							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED		TITLE				DATE	
W. M. GOODEN		PRODUCTION ENGINEER				2-17-82	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR  
Coastal Oil & Gas Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 749, Denver, Colorado 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 818' FSL / 854' FWL (SE SW)  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐  
☒

5. LEASE

U-0132568-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Natural Buttes Unit

8. FARM OR LEASE NAME

Natural Buttes Unit

9. WELL NO.

Natural Buttes Unit No. 47

10. FIELD OR WILDCAT NAME

Natural Buttes Unit

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 30-T10S-R22E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

14. API NO.

43-047-30534

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5379' Ungr. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well completion report filed February 17, 1982. Completed 2/10/82.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED L. W. Thying TITLE Dist Drilling Eng. DATE March 22, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

NBU #47N-2 (COGC)

Natural Buttes Unit

Uintah County, Utah

AFE: 12572 WI: FO BI/APO

ATD: 7100' SD: 12-6-81/12-12-81

Coastal Oil &amp; Gas Corp., Oper.

Loffland #236, Contr.

9-5/8" @ 222'; 4½" @ 6626';

LOCATION: 818' FSL & 854' FWL  
SE SW, Sec 30-T10S-R22E.  
Elv: 5379' GL (ungr)

TD: 7100'

PBTD: 6557'

Perf: 5884-6488' (9 holes)

2-2-82 Flwg to pit after frac.

FTP 10, SICP 25, ¼" stream wtr, gas TSTM, 16/64" CK. Cum Compl Csts:  
\$91,833 Corr. Tot Cum Csts: \$487,347 Corr.

2-3-82 Flwg to pit after frac - well dead.

AM FTP 10, SICP 110, 16/64" CK, gas TSTM, ¼" stream wtr; PM well dead; WO  
swbg unit.

2-4-82 Flwg to pit to clean up after frac.

FTP 450, SICP 600, 16/64" CK, unloading frac wtr & gas. PBTD 6395' with  
slickline; perfs 5884-5893' opn, perfs 6461' & 6479-6488' covered w/sd.

2-5-82 Flwg to pit after frac.

FTP 850, SICP 1150, 16/64" CK, 1150 MCFD w/2 BW.

2-6-82 Well SI.

16/64" CK, FTP 1050 psi, SICP 1100 psi, 2 MMCFD w/2 BW; well SI @ 2:00 PM.

2-7-82 Well SI.

SI 18 hrs; opn to pit 3½ hrs, 30/64" CK ½ hr, 42/64" CK 3 hrs, FTP 1300  
to 300 psi, SICP 1750 to 900 psi, unload small mist of wtr, no sd; well SI @ 11:30 AM.

2-8-82 Well SI; Prep to check PBTD w/SLM.

Cum Csts: \$487,347.

2-9-82 Prep to check PBTD w/slickline.

SITP 2025, SICP 2050; will check PBTD today.

2-10-82 SI; WO PLC.

SITP 2025, SICP 2050; ran SLM & tag PBTD @ 6424'; perfs 6461-6488' (6  
holes) covered w/frac sd; perfs 5884-5893' (3 holes) opn to well bore; plan to  
uncover perfs 6461-6488' after well has been on prod. Completed as single SI GW  
f/Wasatch perfs 5884-6488' (9 holes) on 2-9-82. Cum Csts: \$487,347. Drop f/report.

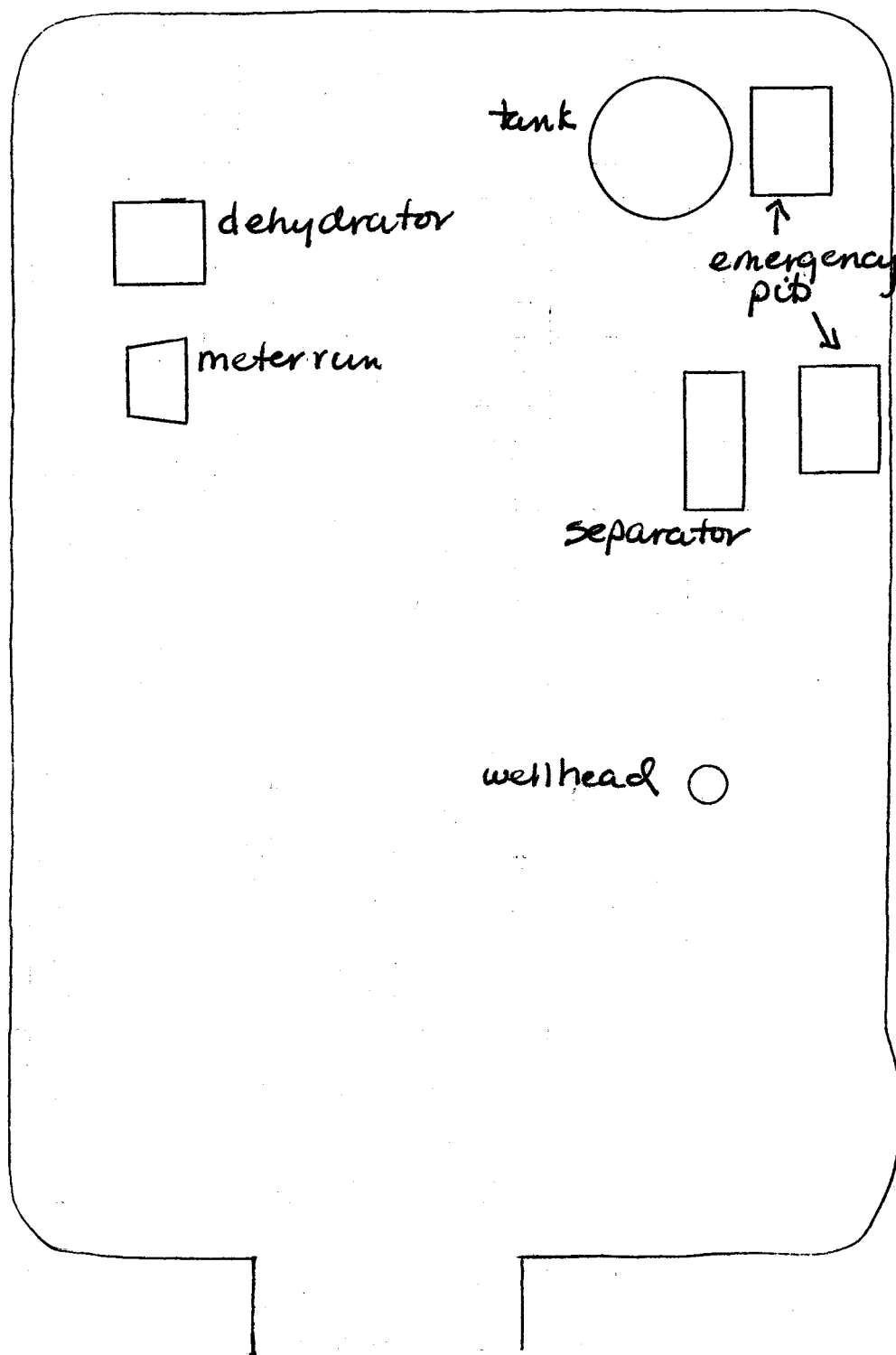
SITP 2150 psi, SICP 2150 psi; First sales 3-12-82 on 12/64" CK. Final Report.

NBU 47

Sec 30, T10S, R22E

Khuly 12/7/88

N —



# WELL TEST DATA FORM

**STATE COPY**

[illegible]

[illegible]

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

U-0132568-A

6. If Indian, Alottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Natural Buttes Unit

8. Well Name and No.

NBU #47

9. API Well No.

43-047-30534

10. Field and Pool, Or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah County, UT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" - for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Coastal Oil & Gas Corporation

3. Address and Telephone No.

P. O. Box 749, Denver, CO 80201-0749

(303) 573-4455

4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)

818' FSL & 854' FWL

SE/SW Section 30-T10S-R22E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

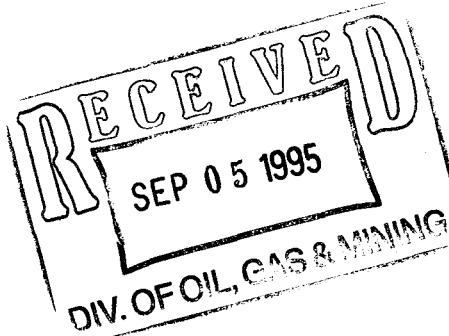
☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other CO, Reperf, Lwr Tbg & Install Plunger Lift Equip

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)\*

Please see the attached workover procedure for work to be performed in the subject well.



14. I hereby certify that the foregoing is true and correct

Signed

*Sheila Bremer*  
Sheila Bremer

Title

Environmental & Safety Analyst

Date

09/01/95

(This space for Federal or State office use)

APPROVED BY

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**NBU #47N2**  
Natural Buttes Field  
Section 30-T10S-R22E

**WELL DATA:**

Location: 818' FSL 854' FWL Sec. 30-T10S-R22E  
Elevation: 5379' GR, 5393' KB  
Total Depth: 7100', PBTD 6557', (1/82)  
Casing: 9-5/8", 36# K-55 @ 220' w/125 sx "G"  
4-1/2" 11.6# N-80 @ 6626' w/2800 sx 50 POZ  
Tubing: 2-3/8" 4.7# J-55 @ 5691'  
Formation: Wasatch & Mesaverde (5884'-6488' - 9 holes)  
Working Interest: COGC 0%, N.W. MUTUAL 100%

**PROCEDURE**

1. MI & RU. Kill well w/3% KCL water. ND WH. NU BOP. POOH w/2-3/8" tubing.
2. RIH w/bit and hydrostatic bailer to cleanout to PBTD (6557').
3. RU & perforate Wasatch & Mesaverde w/3-1/8" casing gun (4 JSPF). Perforate from FDC-CNL log (12/81):

5884	6232	6462	6488
5886	6234	6478	6492
5889	6362	6479	
5893	6363	6484	
6230	6461	6486	(9 holes)
4. RIH w/2-3/8" tbg to spot 500 gal. 15% HCL acid across perforations. PU to 5700'. Soak min. 3 hrs.
5. RIH w/ 2-3/8" tbg to 6489' (new EOT). Swab & flow well to clean up.
6. Install plunger lift stop via WL. ND BOP. NU WH. RD & MO. Complete installation of plunger lift equipment.
7. After returning the well to sales line, obtain rates and pressures.

Rate prior to W/O (4/16/95): 47 MCF, on 8/64" choke (FTP 500#, CP 700#, LP 268#).





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" - for such proposals

RECEIVED  
SEP 18 1995  
DIV. OF OIL, GAS & MINING

5. Lease Designation and Serial No.	U-0132568-A
6. If Indian, Alottee or Tribe Name	N/A
7. If Unit or CA, Agreement Designation	Natural Buttes Unit
8. Well Name and No.	NBU #47
9. API Well No.	43-047-30534
10. Field and Pool, Or Exploratory Area	Natural Buttes
11. County or Parish, State	Uintah County, UT

SUBMIT IN TRIPLICATE

1. Type of Well	<input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other
2. Name of Operator	Coastal Oil & Gas Corporation
3. Address and Telephone No.	P. O. Box 749, Denver, CO 80201-0749 (303) 573-4455
4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)	818' FSL & 854' FWL SE/SW Section 30-T10S-R22E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other CO, Reperf, Lwr Tbg & Install Plunger Lift Equip	<input type="checkbox"/> Dispose Water

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)\*

Please see the attached chronological history for work performed in the subject well.

14. I hereby certify that the foregoing is true and correct		
Signed <u>Sheila Bremer</u>	Title <u>Environmental &amp; Safety Analyst</u>	Date <u>09/14/95</u>
(This space for Federal or State office use)		
APPROVED BY	Title	Date
Conditions of approval, if any:		

tax credit  
6/22/96

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

THE COASTAL CORPORATION  
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

NBU #47N2 (CO-Reperf-Lwr Tbg-Install PLE)

Page 1

NATURAL BUTTES UNIT

UINTAH COUNTY, UTAH

Section 30, T10S-R22E

WI: 60.0% COGC AFE:

7/10/95 **Finish POOH w/2-3/8" tbg and hydrastatic bailer. RIH w/bit and Bulldog bailer.** Tbg P 300 psi, CP 550 psi. MIRU CWS. Blew well and kill well w/50 bbls 3% KCl wt. ND WH, NU BOP. RIH w/2-3/8" tbg tag @ 6419'. POOH 2-3/8" tbg (tally out of hole). RIH w/NC hydrostatic bailer & 2-3/8" tbg tag @ 6419'. Clean out to 6468' hard bridge. POOH 2-3/8" tbg above perf. SION.  
DC: \$ 6,210 CC: \$ 6,210

7/11/95 **Finish drilling & clean out to PBTD/perf.** CP 500 psi. Well blew down. Finish POH 2-3/8" tbg & hydrastatic bailer, empty sand. RIH w/bulldog bailer, bit & 2-3/8" tbg. Tag @ 6420', fell through to 6468'. RU power swivel, clean out to 6487', bailer quit. POH w/bulldog bailer, bit & 2-3/8" tbg. Check bailer & redress. RIH w/bulldog bailer, bit & 2-3/8" tbg. Stop above perf. SION.  
DC: \$ 4,000 CC: \$10,210

7/12/95 **ND BOP. NU WH. Swab well. Spot 500 gals 15% HCL.** CP 500 psi, tbg P 0 psi. Well blew down. Finish RIH w/bit, bulldog bailer & 2-3/8" tbg. tag @ 6489'. Cleanout to 6557'. POH w/2-3/8" tbg, bulldog bailer & bit. RU Cutters. Ran Gamma-Ray strip from 6553' to 5800'. RIH w/3-1/8" csg gun, (4 JSPF), 120% phasing & perforated the Wasatch & Mesaverde intervals as follows: 5884', 5886', 5889', 5893', 6230', 6232', 6234', 6362', 6363', 6461', 6462', 6478', 6479', 6484', 6486', 6488', 6492'. FL @ 3000'. RD Cutters. RIH w/NC, 1 jt 2-3/8" tbg, SN & 206 jts 2-3/8" tbg. Broached tbg (w/10' blast jt). SN set @ 6447'. EOT set @ 6479'. Landed tbg donut. SI well. SION.  
DC: \$10,200 CC: \$20,410

7/13/95 **Swab test well.** CP 750 psi, Tbg P 550 psi. Blew well down. ND BOP, NU WH. Ran swab, found FL @ 3800'. Made 2 runs, recovered 10 bbls. FFL @ 3800'. RU Western Pump 50 bbls 3% KCl wt down 2-3/8" tbg @ 3.6 BPM @ 200 psi. No circulation. Pump 500 gals 15% HCL down 2-3/8" tbg to end of tbg @ 2.6 BPM @ 200 psi. Flush w/25 bbls 3% KCl wt @ 3.4 BPM @ 600 psi. Let acid soak for 3 hrs. Max rate 3.6 BPM. Avg. rate 3.5 BPM. ISTP on vac. Min psi 0, avg psi 000, max psi 600. Ran swab found FL @ 3700'. Made 11 runs recovered 84 bbls. FL @ 4000'. No gas. CP 100 psi. SI well. SION.  
DC: \$ 4,477 CC: \$24,887

7/14/95 **Swab well.** CP 750 psi, TP 450 psi. Open well, blew down in 10 mins. Ran swab, found FL @ 4000'. Made total of 14 runs, recovered 70 bbls. Well would blow down in 5 mins each run. FL @ 5600'. CP 300 psi. RD MO. MIRU Delsco Northwestern. Ran swab & found FL @ 5200'. Made 7 runs, recovered 22 bbls. FFL @ 5900', CP 250 psi. SION.  
DC: \$ 1,615 CC: \$26,502

7/15/95 **Shut in to build pressure.** TP 450, CP 690. Blew well f/45min, well died. Made 12 runs, rec 19 bbls. SFL 5900', EFL 6100'. Light blow f/1-2 min after swab run. End pressure TP 0, CP 175. SDFN & build pressure.  
DC: \$ 1,227 CC: \$27,729

7/16/95 **TP 600, CP 675.** Blew well to pit. Died in 55 min, 48/64 choke. Made 6 swab runs, received 6 bbls. SFL 6200, FFL 6200. TP 0, CP 175 after swab. Light blow after swab 2 min. Shut in well. RDMO.  
DC: \$ 705 CC: \$28,434

7/17/95 **TP 700, CP 680, Down 24. Build up.**  
DC: \$ 0.0 CC: \$28,434

7/18/95 **TP 800, CP 690, Down 24. Build up.**  
DC: \$ 0.0 CC: \$28,434

7/19/95 **TP 800, CP 700, LP 278, Ch 5/64, MMCF 16, Wtr 0, Down 21. Build up.**  
DC: \$ 0.0 CC: \$28,434

7/20/95 **TP 360, CP 650, LP 278, Ch 5/64, MMCF 67, Wtr 0, Down 0.**  
DC: \$ 0.0 CC: \$28,434

7/21/95 **TP 370, CP 700, LP 268, Ch 6/64 & 10/64, MMCF 28, Wtr 0, Down 0.**  
DC: \$ 0.0 CC: \$28,434

7/22/95 **TP 350, CP 630, LP 268, Ch 10/64, MMCF 71, Wtr 2, Down 0.**  
DC: \$ 0.0 CC: \$28,434

7/23/95 TP 350, CP 650, LP 268, Ch 10/64 & 12/64, MMCF 57, Wtr 2, Down 0.  
DC: \$ 0.0

CC: \$28,434

7/24/95 TP 400, CP 475, LP 269, Ch 12/64, MMCF 66, Wtr 2, Down 0.  
DC: \$ 0.0

CC: \$28,434

7/25/95 TP 350, CP 60, LP 268, Ch 12/64, MMCF 71, Wtr 2, Down 0.  
DC: \$ 0.0

CC: \$28,434

FINAL REPORT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" - for such proposals

5. Lease Designation and Serial No.

U-0132568-A

6. If Indian, Alottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Natural Buttes Unit

8. Well Name and No.

NBU #47N2

9. API Well No.

43-047-30534

10. Field and Pool, Or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah County, UT

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Coastal Oil & Gas Corporation

3. Address and Telephone No.

P. O. Box 749, Denver, CO 80201-0749

(303) 573-4455

4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)

818' FSL & 854' FWL

SE/SW Section 30-T10S-R22E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

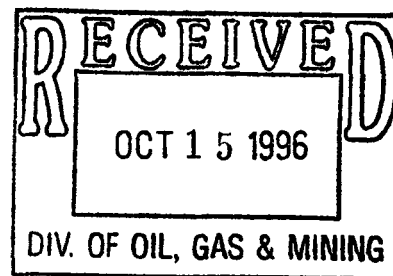
TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Perf. frac, install PLE  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)

Please see the attached procedure for work to be performed in the subject well.



14. I hereby certify that the foregoing is true and correct

Signed

Bonnie Carson

TITLE

Senior Environmental Analyst

Date

10/11/96

(This space for Federal or State office use)

APPROVED BY

TITLE

Conditions of approval, if any:

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**FOR RECORD ONLY**

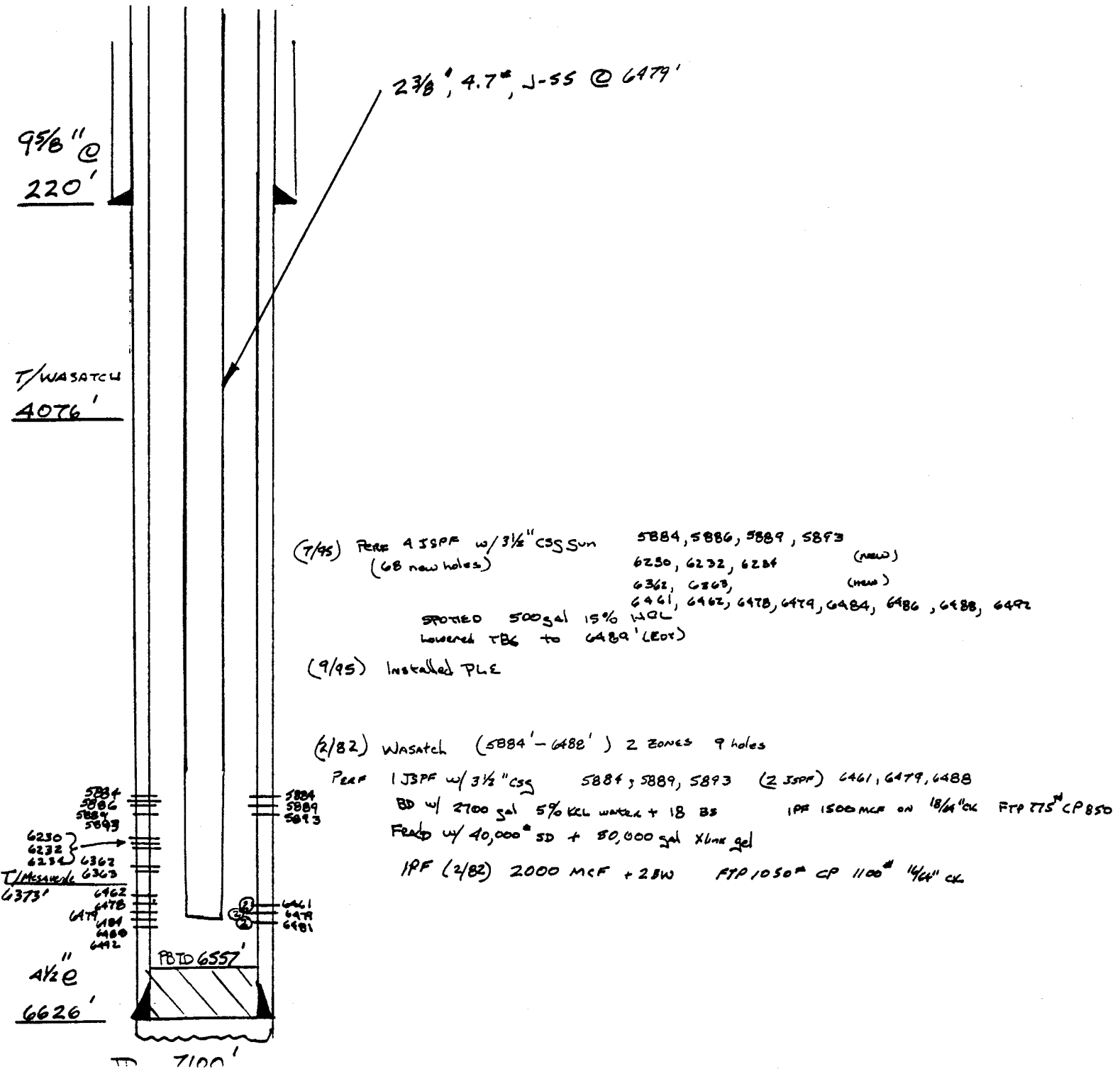
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**NBU #47N2**  
**Natural Buttes Field**  
**Section 30-T10S-R22E**

**WELL DATA**

Location: 818' FSL 854' FWL Sec. 30-T10S-R22E  
 Elevation: 5379' GR, 5393' KB  
 Total Depth: 7100', PBD 6557', (1/82)  
 Casing: 9-5/8", 36# K-55 @ 220' w/125 sx "G"  
 4-1/2" 11.6# N-80 @ 6626' w/2800 sx 50 POZ  
 Tubing: 2-3/8" 4.7# J-55 @ 6489'  
 Formation: Wasatch & Mesaverde (5884'-6488'-77 holes)  
 Working Interest: COGC 0%, N.W. MUTUAL 100%



to 6557' (Orig. PBTD) using air/foam. Circ hole clean w/ air foam. PU and land tbg @ 6489'. Flow well overnight.

8. Blow down & run in hole w/ tbg. Tag PBTD to check for fill. PU and land tbg @ 6489'. ND BOP. NU WH. RD pulling unit and Air/Foam unit.
10. Install PLE. Return the well to sales.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" - for such proposals

5. Lease Designation and Serial No.

U-0132568-A

6. If Indian, Alottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Natural Buttes Unit

8. Well Name and No.

NBU #47N2

9. API Well No.

43-047-30534

10. Field and Pool, Or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah County, UT

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Coastal Oil & Gas Corporation

3. Address and Telephone No.

P. O. Box 749, Denver, CO 80201-0749

(303) 573-4455

4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)

818' FSL & 854' FWL

SE/SW Section 30-T10S-R22E

**CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

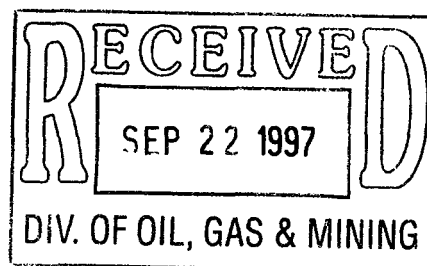
**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Perf, frac, install PLE  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)\*

Please see the attached procedure for work performed in the subject well.



14. I hereby certify that the foregoing is true and correct

Signed Bonnie Carson Title Senior Environmental Analyst Date 09/18/97  
Bonnie Carson

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*See Instruction on Reverse Side**

THE OILFIELD CORPORATION  
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

NBU #47N2  
NATURAL BUTTES UNIT  
UINTAH COUNTY, UTAH  
Section 30, T10S-R22E  
WI: 60.0% COGC AFE:

Page 1

**CO-Reperf-Lwr Tbg-Install PLE**

7/10/95	<b>Finish POOH w/2-3/8" tbg and hydrastatic bailer. RIH w/bit and Bulldog bailer. Tbg P 300 psi, CP 550 psi. MIRU CWS. Blew well and kill well w/50 bbls 3% KCl wt. ND WH, NU BOP. RIH w/2-3/8" tbg tag @ 6419'. POOH 2-3/8" tbg (tally out of hole). RIH w/NC hydrostatic bailer &amp; 2-3/8" tbg tag @ 6419'. Clean out to 6468' hard bridge. POOH 2-3/8" tbg above perf. SION.</b> DC: \$ 6,210	CC: \$ 6,210
7/11/95	<b>Finish drilling &amp; clean out to PBTD/perf. CP 500 psi. Well blew down. Finish POH 2-3/8" tbg &amp; hydrastatic bailer, empty sand. RIH w/bulldog bailer, bit &amp; 2-3/8" tbg. Tag @ 6420', fell through to 6468'. RU power swivel, clean out to 6487', bailer quit. POH w/bulldog bailer, bit &amp; 2-3/8" tbg. Check bailer &amp; redress. RIH w/bulldog bailer, bit &amp; 2-3/8" tbg. Stop above perf. SION.</b> DC: \$ 4,000	CC: \$10,210
7/12/95	<b>ND BOP. NU WH. Swab well. Spot 500 gals 15% HCL. CP 500 psi, tbg P 0 psi. Well blew down. Finish RIH w/bit, bulldog bailer &amp; 2-3/8" tbg. tag @ 6489'. Cleanout to 6557'. POH w/2-3/8" tbg, bulldog bailer &amp; bit. RU Cutters. Ran Gamma-Ray strip from 6553' to 5800'. RIH w/3-1/8" csg gun, (4 JSPF), 120% phasing &amp; perforated the Wasatch &amp; Mesaverde intervals as follows: 5884', 5886', 5889', 5893', 6230', 6232', 6234', 6362', 6363', 6461', 6462', 6478', 6479', 6484', 6486', 6488', 6492'. FL @ 3000'. RD Cutters. RIH w/NC, 1 jt 2-3/8" tbg, SN &amp; 206 jts 2-3/8" tbg. Broached tbg (w/10' blast jt). SN set @ 6447'. EOT set @ 6479'. Landed tbg donut. SI well. SION.</b> DC: \$10,200	CC: \$20,410
7/13/95	<b>Swab test well. CP 750 psi, Tbg P 550 psi. Blew well down. ND BOP, NU WH. Ran swab, found FL @ 3800'. Made 2 runs, recovered 10 bbls. FFL @ 3800'. RU Western Pump 50 bbls 3% KCl wt down 2-3/8" tbg @ 3.6 BPM @ 200 psi. No circulation. Pump 500 gals 15% HCL down 2-3/8" tbg to end of tbg @ 2.6 BPM @ 200 psi. Flush w/25 bbls 3% KCl wt @ 3.4 BPM @ 600 psi. Let acid soak for 3 hrs. Max rate 3.6 BPM. Avg. rate 3.5 BPM. ISTP on vac. Min psi 0, avg psi 000, max psi 600. Ran swab found FL @ 3700'. Made 11 runs recovered 84 bbls. FL @ 4000'. No gas. CP 100 psi. SI well. SION.</b> DC: \$ 4,477	CC: \$24,887
7/14/95	<b>Swab well. CP 750 psi, TP 450 psi. Open well, blew down in 10 mins. Ran swab, found FL @ 4000'. Made total of 14 runs, recovered 70 bbls. Well would blow down in 5 mins each run. FL @ 5600'. CP 300 psi. RD MO. MIRU Delsco Northwestern. Ran swab &amp; found FL @ 5200'. Made 7 runs, recovered 22 bbls. FFL @ 5900', CP 250 psi. SION.</b> DC: \$ 1,615	CC: \$26,502
7/15/95	<b>Shut in to build pressure. TP 450, CP 690. Blew well f/45min, well died. Made 12 runs, rec 19 bbls. SFL 5900', EFL 6100'. Light blow f/1-2 min after swab run. End pressure TP 0, CP 175. SDFN &amp; build pressure.</b> DC: \$ 1,227	CC: \$27,729
7/16/95	<b>TP 600, CP 675. Blew well to pit. Died in 55 min, 48/64 choke. Made 6 swab runs, received 6 bbls. SFL 6200, FFL 6200. TP 0, CP 175 after swab. Light blow after swab 2 min. Shut in well. RDMO.</b> DC: \$ 705	CC: \$28,434
7/17/95	<b>TP 700, CP 680, Down 24. Build up.</b> DC: \$ 0.0	CC: \$28,434
7/18/95	<b>TP 800, CP 690, Down 24. Build up.</b> DC: \$ 0.0	CC: \$28,434
7/19/95	<b>TP 800, CP 700, LP 278, Ch 5/64, MMCF 16, Wtr 0, Down 21. Build up.</b> DC: \$ 0.0	CC: \$28,434
7/20/95	<b>TP 360, CP 650, LP 278, Ch 5/64, MMCF 67, Wtr 0, Down 0.</b> DC: \$ 0.0	CC: \$28,434



7/21/95	TP 370, CP 700, LP 268, Ch 6/64 & 10/64, MMCF 28, Wtr 0, Down 0. DC: \$ 0.0	CC: \$28,434
7/22/95	TP 350, CP 630, LP 268, Ch 10/64, MMCF 71, Wtr 2, Down 0. DC: \$ 0.0	CC: \$28,434
7/23/95	TP 350, CP 650, LP 268, Ch 10/64 & 12/64, MMCF 57, Wtr 2, Down 0. DC: \$ 0.0	CC: \$28,434
7/24/95	TP 400, CP 475, LP 269, Ch 12/64, MMCF 66, Wtr 2, Down 0. DC: \$ 0.0	CC: \$28,434
7/25/95	TP 350, CP 60, LP 268, Ch 12/64, MMCF 71, Wtr 2, Down 0. DC: \$ 0.0	CC: \$28,434

### FINAL REPORT

9/29/95	TP 170, CP 325, LP 155, Ch 30/64, MCF 297 Wtr 4, Down 0.
9/30/95	TP 175, CP 325, LP 150, Ch 11/30, MCF 234 Wtr 4, Down 2, instl plunger.
10/1/95	TP 275, CP 450, LP 170, Ch 11/30, MCF 23 Wtr 2, Down 22, call for plate change.
10/2/95	TP 175, CP 425, LP 155, Ch 30, MCF 114 Wtr 4, Down 14, surface eqv.
10/3/95	TP 190, CP 375, LP 186, Ch 28, MCF 294 Wtr 2, Down 1, Comp down.

**FINAL REPORT.**

### Add Upper Wasatch Pay

11/16-18/96	MIRU Basin Rig. Pump 20 bbls 3% KCl down csg 5 bbls down tbg. RD tree. RU BOPs, try to pull plunger spring w/sd line - no luck. Tag PBTD. Took 83' tbg. POH tbg SLM 206 jts 10' blast jt. PBTD 6554' tbg tally. RIH w/6 jts. SDFN DC: \$3,139	TC: \$9,139
11/19/96	At 7am, 500 csg. Bleed off. POH tbg. PU-RIH Arrow T S RBP set @ 5800. PT to 5000 psi, held. POH tbg. MIRU Cutter WL. RIH CB, GR CCL log 5790' to 4000' w/1000# on csg. Find cmt top 320'. SDFN DC: \$4,198	TC: \$7,337
11/20/96	MIRU Cutter WL - RIH w/3 1/8" csg gun - correlate to bond log. Perf 1 JSPF 4972', 4980', 4982', 5734', 5736', 5738'. POH. RD & rls Cutter. No psi at surface. PU-RIH notch collar, 1 jt, SN, 183 jts. Spot acid 15% HCl. POH & LD 26 jts. Land in donut w/10' blast jt and donut. RD BOPs. RU tree. RD & rls rig. EOT @ 4951.54' KB, SN @ 4901' KB. DC: \$8,878	TC: \$16,215
11/21/96	SI. Prep to frac @ 9am.	
11/22/96	Frac 4972-5738' down annulus w/46400# 20/40 mesh & 15000# 16/30. MIP/AIP = 5000# / 4500#, MIR/AIR = 15 BPM / 14 BPM. Start flwback @ 3 BPM. Tot ld 377 BBLs. Rec 235 BBLs by 6:00 AM 11/22.	
11/23-25/96	Swb well. Rec 393 BBLs,. 251 BBLs overload.	
11/26/96	RU WL. Tag sd @ 5694'. RD WL. RU Svs Unit. SDFN. 269 BBLs overload	
11/27/96	ND tree, NU BOP. RIH w/hydrostatic bailer. CO sd f / 5655-5800'. RIH w / pkr, set @ 5708'. Swb perfs f / 5734-38'. IFL 100', FFL 2400'. Rec 19 BW, 288 BBLs overload.	
11/28/96	CP 0 psi. Will flow to pit. SITP 0 psi. IFL 2000', made 4 runs tearing up cups, stuck swab in joint of tbg @ 200', part of sand line fell to btm - POOH. Recover swab & LD bad jt. RIH, reset pkr, make 3 runs. Swab down to 4500', 4th run - stop 50' above PSN, instantly stuck. (Had not seen only sand). Jar on swab, no good, rls pkr. Try to work loose, no good. SIFN - order line cutter. Rec 13 BW, full load rec 3	

days ago.  
DC: \$2,200 TC: \$55,698

11/29/96 SD for Thanksgiving.

11/30/96 Drop cutter and cut off sand line. Pull sand line out of hole, POOH w/tbg, had 15' of mud, 90' of sand on top of cups. Put 4 jts of tbg under pkr and RIH, tag cond @ 5710', (where pkr had been). POOH - RIH w/notched collar, wash sand from 5710'-25', had to drill from 5725' to 35'. Pull above perfs & SDFN.  
DC: \$2,750 TC: \$58,448

12/01/96 Well dead. RIH, tag sand @ 5740'. CO to 5800'. POOH - PU pkr and RIH, set pkr @ 5028' - won't hold, 5087' set OK. EOT @ 5217', swab IFL surface. Made 8 runs FFL 4600', rec 30 bbls some mud. Wait ½ hr, had 200' entry. SDFN  
DC: \$2,350 TC: \$60,798

12/02/96 TP 0 psi, CP 10 psi, IFL 3300'. Made 13 runs, rec 22 BW, very muddy, lots of solids. FFL 4800', making 1 run per hr. Fluid staged @ 4700'.  
DC: \$2,350 TC: \$63,148

12/03/96 Well dead, IFL 4200', made 3 runs and recovered 3 BW. RIH w/sinker bars, tag sand @ 5775'. SDFN  
DC: \$1,550 TC: \$64,698

12/04/96 Well dead, thaw BOP, POOH R3 pkr. RIH, wash sand off RBP, rls RBP - POOH, RIH w/ BS 155 jt tbg, PSN 1 jt tbg, NC @ 4915.  
DC: \$350 TC: \$4,900

12/05/96 RDMO Colorado Well Service Rig #26.  
DC: \$2,700 TC: \$71,548

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" - for such proposals

5. Lease Designation and Serial No.

U-0132568-A

6. If Indian, Alottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Natural Buttes Unit

8. Well Name and No.

NBU #47N2

9. API Well No.

43-047-30534

10. Field and Pool, Or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah County, UT

## SUBMIT IN TRIPLICATE

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

2. Name of Operator

Coastal Oil &amp; Gas Corporation

3. Address and Telephone No.

P. O. Box 749, Denver, CO 80201-0749

(303) 573-4455

4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)

818' FSL &amp; 854' FWL

SE/SW Section 30-T10S-R22E

## 12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

## TYPE OF ACTION

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒Other Perf, frac, install PLE☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

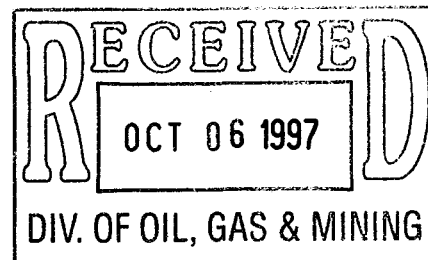
☐

Dispose Water

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)\*

Please see the attached procedure for work performed in the subject well.



14. I hereby certify that the foregoing is true and correct

Signed

Bonnie Carson

Title Senior Environmental Analyst

Date

09/18/97

(This space for Federal or State office use)

APPROVED BY

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WD tax credit 10/97

\*See Instruction on Reverse Side

THE CRYSTAL CORPORATION  
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

NBU #47N2  
NATURAL BUTTES UNIT  
UINTAH COUNTY, UTAH  
Section 30, T10S-R22E  
WI: 60.0% COGC AFE:

Page 1

**CO-Reperf-Lwr Tbg-Install PLE**

7/10/95      **Finish POOH w/2-3/8" tbg and hydrastatic bailer. RIH w/bit and Bulldog bailer. Tbg P 300 psi, CP 550 psi. MIRU CWS. Blew well and kill well w/50 bbls 3% KCl wt. ND WH, NU BOP. RIH w/2-3/8" tbg tag @ 6419'. POOH 2-3/8" tbg (tally out of hole). RIH w/NC hydrostatic bailer & 2-3/8" tbg tag @ 6419'. Clean out to 6468' hard bridge. POOH 2-3/8" tbg above perf. SION.**  
DC: \$ 6,210      CC: \$ 6,210

7/11/95      **Finish drilling & clean out to PBTD/perf. CP 500 psi. Well blew down. Finish POH 2-3/8" tbg & hydrastatic bailer, empty sand. RIH w/bulldog bailer, bit & 2-3/8" tbg. Tag @6420', fell through to 6468'. RU power swivel, clean out to 6487', bailer quit. POH w/bulldog bailer, bit & 2-3/8" tbg. Check bailer & redress. RIH w/bulldog bailer, bit & 2-3/8" tbg. Stop above perf. SION.**  
DC: \$ 4,000      CC: \$10,210

7/12/95      **ND BOP. NU WH. Swab well. Spot 500 gals 15% HCL. CP 500 psi, tbg P 0 psi. Well blew down. Finish RIH w/bit, bulldog bailer & 2-3/8" tbg. tag @ 6489'. Cleanout to 6557'. POH w/2-3/8" tbg, bulldog bailer & bit. RU Cutters. Ran Gamma-Ray strip from 6553' to 5800'. RIH w/3-1/8" csg gun, (4 JSPF), 120% phasing & perforated the Wasatch & Mesaverde intervals as follows: 5884', 5886', 5889', 5893', 6230', 6232', 6234', 6362', 6363', 6461', 6462', 6478', 6479', 6484', 6486', 6488', 6492'. FL @ 3000'. RD Cutters. RIH w/NC, 1 jt 2-3/8" tbg, SN & 206 jts 2-3/8" tbg. Broached tbg (w/10' blast jt). SN set @ 6447'. EOT set @ 6479'. Landed tbg donut. SI well. SION.**  
DC: \$10,200      CC: \$20,410

7/13/95      **Swab test well. CP 750 psi, Tbg P 550 psi. Blew well down. ND BOP, NU WH. Ran swab, found FL @ 3800'. Made 2 runs, recovered 10 bbls. FFL @ 3800'. RU Western Pump 50 bbls 3% KCl wt down 2-3/8" tbg @ 3.6 BPM @ 200 psi. No circulation. Pump 500 gals 15% HCL down 2-3/8" tbg to end of tbg @ 2.6 BPM @ 200 psi. Flush w/25 bbls 3% KCl wt @ 3.4 BPM @ 600 psi. Let acid soak for 3 hrs. Max rate 3.6 BPM. Avg. rate 3.5 BPM. ISTEP on vac. Min psi 0, avg psi 000, max psi 600. Ran swab found FL @ 3700'. Made 11 runs recovered 84 bbls. FL @ 4000'. No gas. CP 100 psi. SI well. SION.**  
DC: \$ 4,477      CC: \$24,887

7/14/95      **Swab well. CP 750 psi, TP 450 psi. Open well, blew down in 10 mins. Ran swab, found FL @ 4000'. Made total of 14 runs, recovered 70 bbls. Well would blow down in 5 mins each run. FL @ 5600'. CP 300 psi. RD MO. MIRU Delsco Northwestern. Ran swab & found FL @ 5200'. Made 7 runs, recovered 22 bbls. FFL @ 5900', CP 250 psi. SION.**  
DC: \$ 1,615      CC: \$26,502

7/15/95      **Shut in to build pressure. TP 450, CP 690. Blew well f/45min, well died. Made 12 runs, rec 19 bbls. SFL 5900', EFL 6100'. Light blow f/1-2 min after swab run. End pressure TP 0, CP 175. SDFN & build pressure.**  
DC: \$ 1,227      CC: \$27,729

7/16/95      **TP 600, CP 675. Blew well to pit. Died in 55 min, 48/64 choke. Made 6 swab runs, received 6 bbls. SFL 6200, FFL 6200. TP 0, CP 175 after swab. Light blow after swab 2 min. Shut in well. RDMO.**  
DC: \$ 705      CC: \$28,434

7/17/95      **TP 700, CP 680, Down 24. Build up.**  
DC: \$ 0.0      CC: \$28,434

7/18/95      **TP 800, CP 690, Down 24. Build up.**  
DC: \$ 0.0      CC: \$28,434

7/19/95      **TP 800, CP 700, LP 278, Ch 5/64, MMCF 16, Wtr 0, Down 21. Build up.**  
DC: \$ 0.0      CC: \$28,434

7/20/95      **TP 360, CP 650, LP 278, Ch 5/64, MMCF 67, Wtr 0, Down 0.**  
DC: \$ 0.0      CC: \$28,434

7/21/95	TP 370, CP 700, LP 268, Ch 6/64 & 10/64, MMCF 28, Wtr 0, Down 0. DC: \$ 0.0	CC: \$28,434
7/22/95	TP 350, CP 630, LP 268, Ch 10/64, MMCF 71, Wtr 2, Down 0. DC: \$ 0.0	CC: \$28,434
7/23/95	TP 350, CP 650, LP 268, Ch 10/64 & 12/64, MMCF 57, Wtr 2, Down 0. DC: \$ 0.0	CC: \$28,434
7/24/95	TP 400, CP 475, LP 269, Ch 12/64, MMCF 66, Wtr 2, Down 0. DC: \$ 0.0	CC: \$28,434
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### FINAL REPORT

9/29/95	TP 170, CP 325, LP 155, Ch 30/64, MCF 297 Wtr 4, Down 0.
9/30/95	TP 175, CP 325, LP 150, Ch 11/30, MCF 234 Wtr 4, Down 2, instl plunger.
10/1/95	TP 275, CP 450, LP 170, Ch 11/30, MCF 23 Wtr 2, Down 22, call for plate change.
10/2/95	TP 175, CP 425, LP 155, Ch 30, MCF 114 Wtr 4, Down 14, surface eqv.
10/3/95	TP 190, CP 375, LP 186, Ch 28, MCF 294 Wtr 2, Down 1, Comp down. <b>FINAL REPORT.</b>

### Add Upper Wasatch Pay

11/16-18/96	MIRU Basin Rig. Pump 20 bbls 3% KCl down csg 5 bbls down tbg. RD tree. RU BOPs, try to pull plunger spring w/sd line - no luck. Tag PBTd. Took 83' tbg. POH tbg SLM 206 jts 10' blast jt. PBTd 6554' tbg tally. RIH w/6 jts. SDFN DC: \$3,139	TC: \$9,139
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11/21/96	SI. Prep to frac @ 9am.	
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11/23-25/96	Swb well. Rec 393 BBLs,. 251 BBLs overload.	
11/26/96	RU WL. Tag sd @ 5694'. RD WL. RU Svs Unit. SDFN. 269 BBLs overload	
11/27/96	ND tree, NU BOP. RIH w/hydrostatic bailer. CO sd f / 5655-5800'. RIH w / pkr, set @ 5708'. Swb perfs f / 5734-38'. IFL 100', FFL 2400'. Rec 19 BW, 288 BBLs overload.	
11/28/96	CP 0 psi. Will flow to pit. SITP 0 psi. IFL 2000', made 4 runs tearing up cups, stuck swab in joint of tbg @ 200', part of sand line fell to btm - POOH. Recover swab & LD bad jt. RIH, reset pkr, make 3 runs. Swab down to 4500', 4th run - stop 50' above PSN, instantly stuck. (Had not seen only sand). Jar on swab, no good, rls pkr. Try to work loose, no good. SIFN - order line cutter. Rec 13 BW, full load rec 3	

days ago.

DC: \$2,200

TC: \$55,698

11/29/96

SD for Thanksgiving.

11/30/96

Drop cutter and cut off sand line. Pull sand line out of hole, POOH w/tbg, had 15' of mud, 90' of sand on top of cups. Put 4 jts of tbg under pkr and RIH, tag cond @ 5710', (where pkr had been). POOH - RIH w/notched collar, wash sand from 5710'-25', had to drill from 5725' to 35'. Pull above perms & SDFN.

DC: \$2,750

TC: \$58,448

12/01/96

Well dead. RIH, tag sand @ 5740'. CO to 5800'. POOH - PU pkr and RIH, set pkr @ 5028' - won't hold, 5087' set OK. EOT @ 5217', swab IFL surface. Made 8 runs FFL 4600', rec 30 bbls some mud. Wait ½ hr, had 200' entry. SDFN

DC: \$2,350

TC: \$60,798

12/02/96

TP 0 psi, CP 10 psi, IFL 3300'. Made 13 runs, rec 22 BW, very muddy, lots of solids. FFL 4800', making 1 run per hr. Fluid staged @ 4700'.

DC: \$2,350

TC: \$63,148

12/03/96

Well dead, IFL 4200', made 3 runs and recovered 3 BW. RIH w/sinker bars, tag sand @ 5775'. SDFN

DC: \$1,550

TC: \$64,698

12/04/96

Well dead, thaw BOP, POOH R3 pkr. RIH, wash sand off RBP, rls RBP - POOH, RIH w/ BS 155 jt tbg, PSN 1 jt tbg, NC @ 4915.

DC: \$350

TC: \$4,900

12/05/96

RDMO Colorado Well Service Rig #26.

DC: \$2,700

TC: \$71,548

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
El Paso Production Oil & Gas Company

3. ADDRESS OF OPERATOR:  
8 South 1200 East CITY Vernal STATE Utah ZIP 84078

PHONE NUMBER:  
435-789-4433

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

Exhibit "A"

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

COUNTY:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

☐ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: Name Change

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.

See Exhibit "A"

Bond # 400JU0708

Coastal Oil & Gas Corporation

NAME (PLEASE PRINT) John T. Elzner

TITLE Vice President

SIGNATURE [Signature]

DATE 06-15-01

El Paso Production Oil & Gas Company

NAME (PLEASE PRINT) John T. Elzner

TITLE Vice President

SIGNATURE [Signature]

DATE 06-15-01

(This space for State use only)

RECEIVED

JUN 19 2001

DIVISION OF  
OIL, GAS AND MINING

State of Delaware  
*Office of the Secretary of State*

---

PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COASTAL OIL & GAS CORPORATION", CHANGING ITS NAME FROM "COASTAL OIL & GAS CORPORATION" TO "EL PASO PRODUCTION OIL & GAS COMPANY", FILED IN THIS OFFICE ON THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

RECEIVED

JUN 14 2001

DIVISION OF  
OIL, GAS AND MINING



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

0610204 8100

AUTHENTICATION: 1061007

010162788

DATE: 04-03-01



## CERTIFICATE OF AMENDMENT

OF

## CERTIFICATE OF INCORPORATION

COASTAL OIL & GAS CORPORATION (the "Company"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of the Company, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of the Company:

RESOLVED that it is deemed advisable that the Certificate of Incorporation of this Company be amended, and that said Certificate of Incorporation be so amended, by changing the Article thereof numbered "FIRST." so that, as amended, said Article shall be and read as follows:

"FIRST. The name of the corporation is El Paso Production Oil & Gas Company."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders entitled to vote have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said COASTAL OIL & GAS CORPORATION has caused this certificate to be signed on its behalf by a Vice President and attested by an Assistant Secretary, this 9th day of March 2001.

COASTAL OIL &amp; GAS CORPORATION



David L. Siddall  
Vice President

Attest:

  
(Margaret E. Roark, Assistant Secretary)

RECEIVED

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 11:00 AM 03/09/2001  
010118394 - 0610204

JUN 19 2001

DIVISION OF  
OIL, GAS AND MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

# RECEIVED

JUL 12 2001

DIVISION OF  
OIL, GAS AND MINING

In Reply Refer To:

3106

UTSL-065841

(UT-924)

JUL 10 2001

### NOTICE

El Paso Production Oil & Gas Company	:	Oil and Gas
Nine Greenway Plaza	:	
Houston TX 77046-0095	:	

### Name Change Recognized

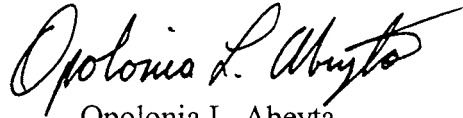
Acceptable evidence has been received in this office concerning the name change of Coastal Oil & Gas Corporation into El Paso Production Oil & Gas Company with El Paso Production Oil & Gas Company being the surviving entity.

For our purposes, the name change is recognized effective March 9, 2001.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our computer program. We have not abstracted the lease files to determine if the entities affected by this name change hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested recorded title or operating rights interests. We will be notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

If you identify additional leases in which the entities maintain an interest, please contact this office and we will appropriately document those files with a copy of this Notice.

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Coastal Oil & Gas Corporation to El Paso Production Oil & Gas Company. You may accomplish this either by consent of surety rider on the original bond or a rider to the original bond. The bonds are held in Wyoming and Colorado.



Opolonia L. Abeyta  
Acting Chief, Branch of  
Minerals Adjudication

Enclosure

1. Exhibit of Leases (1 pp)

cc: Moab Field Office  
Vernal Field Office  
MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217  
~~State of Utah, DOGM~~, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114  
Teresa Thompson (UT-922)  
Joe Incardine (UT-921)

### Exhibit of Leases

UTUSL-065841A	UTU-47172	UTU-74415	UTU-53860
UTU-28652	UTU-50687	UTU-74416	UTU-66401
UTU-37943	UTU-52298	UTU-75091	UTU-67868
UTU-44089	UTU-0109054	UTU-75096	UTU-65389
UTU-44090A	UTU-0143511	UTU-75097	UTU-77084
UTU-61263	UTU-0143512	UTU-75673	UTU-61430
UTU-00343	UTU-38401	UTU-76259	UTU-72633
UTU-02651	UTU-38411	UTU-76260	UTU-72650
UTU-02651B	UTU-38418	UTU-76261	UTU-49692
UTU-0142175	UTU-38419	UTU-76493	UTU-57894
UTU-70235	UTU-38420	UTU-76495	UTU-76829
UTU-70406	UTU-38421	UTU-76503	UTU-76830
UTU-74954	UTU-38423	UTU-78228	UTU-76831
UTU-75132	UTU-38424	UTU-78714	
UTU-75699	UTU-38425	UTU-78727	
UTU-76242	UTU-38426	UTU-78734	
UTU-78032	UTU-38427	UTU-79012	
UTU-4377	UTU-38428	UTU-79011	
UTU-4378	UTU-53861	UTU-71694	
UTU-7386	UTU-58097	UTU-00576	
UTU-8344A	UTU-64376	UTU-00647	
UTU-8345	UTU-65222	UTU-01470D	
UTU-8347	UTU-65223	UTU-0136484	
UTU-8621	UTU-66746	UTU-8344	
UTU-14646	UTU-67178	UTU-8346	
UTU-15855	UTU-67549	UTU-8648	
UTU-25880	UTU-72028	UTU-28212	
UTU-28213	UTU-72632	UTU-30289	
UTU-29535	UTU-73009	UTU-31260	
UTU-29797	UTU-73010	UTU-33433	
UTU-31736	UTU-73013	UTU-34711	
UTU-34350	UTU-73175	UTU-46699	
UTU-34705	UTU-73434	UTU-78852	
UTU-37116	UTU-73435	UTU-78853	
UTU-37355	UTU-73444	UTU-78854	
UTU-37573	UTU-73450	UTU-075939	
UTU-38261	UTU-73900	UTU-0149767	
UTU-39223	UTU-74409	UTU-2078	
UTU-40729	UTU-74410	UTU-44426	
UTU-40736	UTU-74413	UTU-49530	
UTU-42469	UTU-74414	UTU-51026	

**OPERATOR CHANGE WORKSHEET****ROUTING**

1. GLH		4-KAS
2. CDW	✓	5-LP ✓
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

**X**      **Merger**The operator of the well(s) listed below has changed, effective: **3-09-2001**

<b>FROM: (Old Operator):</b>
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

<b>TO: ( New Operator):</b>
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

**CA No.****Unit: NATURAL BUTTES****WELL(S)**

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 519-3E	43-047-33779	2900	03-09S-21E	FEDERAL	GW	P
NBU 368	43-047-33972	99999	04-09S-21E	FEDERAL	GW	APD
CIGE 256	43-047-33971	2900	09-09S-21E	FEDERAL	GW	APD
CIGE 242	43-047-34022	99999	33-09S-22E	FEDERAL	GW	APD
NBU 288	43-047-32986	2900	03-10S-22E	FEDERAL	GW	P
NBU 336	43-047-34027	99999	04-10S-22E	FEDERAL	GW	APD
NBU 337	43-047-34020	99999	04-10S-22E	FEDERAL	GW	APD
NBU 338	43-047-34058	99999	05-10S-22E	FEDERAL	GW	APD
NBU 344	43-047-34021	99999	08-10S-22E	FEDERAL	GW	APD
NBU 348	43-047-34001	99999	11-10S-22E	STATE	GW	APD
NBU 349	43-047-34002	99999	11-10S-22E	STATE	GW	APD
NBU 382	43-047-34235	99999	22-10S-22E	FEDERAL	GW	NEW
NBU 381	43-047-34234	99999	23-10S-22E	FEDERAL	GW	NEW
NBU 39	43-047-30861	2900	29-10S-22E	FEDERAL	GW	P
NBU 360	43-047-33773	2900	29-10S-22E	FEDERAL	GW	P
NBU 47N2	43-047-30534	2900	30-10S-22E	FEDERAL	GW	S
NBU 351	43-047-33668	2900	30-10S-22E	FEDERAL	GW	P
NBU 384	43-047-34237	99999	30-10S-22E	FEDERAL	GW	NEW
NBU 70-34B	43-047-30577	2900	34-10S-22E	FEDERAL	GW	S
NBU 62-35B	43-047-30477	2900	35-10S-22E	FEDERAL	GW	S

**OPERATOR CHANGES DOCUMENTATION**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/21/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 608186-0143

5. If **NO**, the operator was contacted contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 07/10/2001
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 07/10/2001
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

---

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 08/23/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 08/23/2001
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

---

**STATE BOND VERIFICATION:**

1. State well(s) covered by Bond No.: N/A

---

**FEDERAL BOND VERIFICATION:**

1. Federal well(s) covered by Bond No.: WY 2793

---

**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond No: N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: \_\_\_\_\_

---

**FILMING:**

1. All attachments to this form have been **MICROFILMED** on: \_\_\_\_\_

---

**FILING:**

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: \_\_\_\_\_

---

**COMMENTS:** Master list of all wells involved in operator change from Coastal Oil & Gas Corporation to El Paso Production Oil and Gas Company shall be retained in the "Operator Change File".

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JAN. 17. 2003 3:34PM

WESTPORT

NO. 173 P. 2



## WESTPORT OIL AND GAS COMPANY, L.P.

410 Seventeenth Street #2300 Denver Colorado 80202-4436  
Telephone: 303 573 5404 Fax: 303 573 5609

February 1, 2002

Department of the Interior  
Bureau of Land Management  
2850 Youngfield Street  
Lakewood, CO 80215-7093  
Attention: Ms. Martha Maxwell

RE: BLM Bond CO-1203  
BLM Nationwide Bond 158626364  
Surety - Continental Casualty Company  
Belco Energy Corporation merger into Westport Oil and Gas Company, Inc.  
Conversion of Westport Oil and Gas Company, Inc., into Westport Oil and Gas Company, L.P.  
Assumption Rider - Westport Oil and Gas Company, L.P.

Dear Ms. Maxwell:

Pursuant to our recent conversations, please find the following list of enclosures for the BLM's consideration and approval:

Two (2) Assumption Riders, fully executed originals.  
Copies of Belco Energy Corporation merger into Westport Oil and Gas Company, Inc.  
Copies of Westport Oil and Gas Company, Inc., conversion into Westport Oil and Gas Company, L.P.  
List of all Federal/BIA/State Leases - Belco/Westport's leases - in all states.

Please inform us of any additional information needed to complete the change to Westport Oil and Gas Company, L.P., as operator of record.

I thank you for your assistance and cooperation in this matter. Please do not hesitate contacting the undersigned, should a question arise.

Sincerely,  
Westport Oil and Gas Company, L.P.

Debby J. Black  
Engineer Technician

Encl:



# United States Department of the Interior **RECEIVED**

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

FEB 22 2002

DIVISION OF  
OIL, GAS AND MINING

In Reply Refer To:

3106

UTU-25566 et al

(UT-924)

FEB 21 2002

### NOTICE

Westport Oil and Gas Company L.P. : Oil and Gas  
410 Seventeenth Street, #2300 :  
Denver Colorado 80215-7093 :

#### Name Change Recognized

Acceptable evidence has been received in this office concerning the name change of Westport Oil and Gas Company, Inc. into Westport Oil and Gas Company, L.P. with Westport Oil and Gas Company, L.P. being the surviving entity.

For our purposes, the name change is recognized effective December 31, 2001.

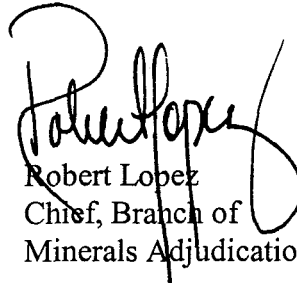
The oil and gas lease files identified have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our computer program. We have not abstracted the lease files to determine if the entities affected by this name change hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested recorded title or operating rights interests. We will be notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

If you identify additional leases in which the entities maintain an interest, please contact this office and we will appropriately document those files with a copy of this Notice.



Due to the name change, the name of the principal/obligor on the bond is required to be changed from Westport Oil and Gas Company, Inc. to Westport Oil and Gas Company, L.P.. You may accomplish this either by consent of surety rider on the original bond or a rider to the original bond. The bonds are held in Colorado.

UTU-03405  
UTU-20895  
UTU-25566  
UTU-43156  
UTU-49518  
UTU-49519  
UTU-49522  
UTU-49523



Robert Lopez  
Chief, Branch of  
Minerals Adjudication

cc: Moab Field Office  
Vernal Field Office  
MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217  
State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114  
Teresa Thompson (UT-922)  
Joe Incardine (UT-921)

# memorandum

Branch of Real Estate Services  
Uintah & Ouray Agency

Date: 5 December, 2002

Reply to:  
Attn of: Supervisory Petroleum Engineer

Subject: Modification of Utah Division of Oil, Gas and Mining Regulations

To: Director, Utah Division of Oil, Gas and Mining Division: John Baza

We have been advised of changes occurring with the operation of your database for Change of Operator. You will be modifying your records to reflect Change of Operator once you have received all necessary documentation from the companies involved, and perhaps in advance of our Notice of Concurrence/Approval of Change of Operator where Indian leases are involved.

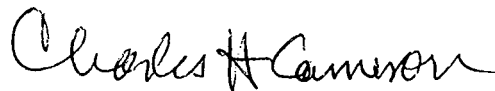
We have no objection.

With further comment to Rulemaking, I wish to comment concerning the provision of Exhibits for upcoming Hearings. I would like to see the Uintah & Ouray Agency, BIA, and the Ute Indian Tribe, Energy & Mineral Resources Department added to the list of those parties that receive advance Exhibits so as to allow us to have research time prior to Hearing dates. We will be able to provide a more informed recommendation to the Oil, Gas and Mining Board. It would be best if we would receive only those Exhibits that concern Indian lands, specifically on or adjacent to Indian lands. This may be a difficult situation to attain, as it is not always clear where 'on or adjacent' occurs.

I am aware that you have gone to extra effort to correct this matter already, and I fully appreciate it. My request is intended only to allow the addition of Uintah & Ouray Agency and Ute Indian Tribe to the official listing.

We appreciate your concern, and hope that these comments are timely enough for consideration in the revision process.

CC: Minerals & Mining Section of RES  
Ute Energy & Mineral Resources Department: Executive Director  
chrono





## United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

Washington, D.C. 20240

FEB 10 2003

IN REPLY REFER TO:  
Real Estate Services.

Carroll A. Wilson  
Principal Landman  
Westport Oil and Gas Company, L.P.  
1368 South 1200 East  
Vernal, Utah 84078

Dear Mr. Wilson:

This is in response to your request for approval of RLI Insurance Company's Nationwide Oil and Gas Lease Bond No. RLB0005239 executed effective December 17, 2002, (\$150,000 coverage) with Westport Oil and Gas Company, L. P., as principal.

This bond is hereby approved as of the date of this correspondence and will be retained in the Bureau of Indian Affairs' Division of Real Estate Services, 1849 C Street, NW, MS-4512-MIB, Washington, D.C. 20240. All Bureau oil and gas regional offices and the surety are being informed of this action.

In cases where you have existing individual and/or collective bonds on file with one or more of our regional offices, you may now request those offices, directly, to terminate in lieu of coverage under this Nationwide Bond.

Enclosed is a copy of the approved bond for your files. If we may be of further assistance in this matter, please advise.

Sincerely,

**ACTING**

Director, Office of Trust Responsibilities

Enclosure



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-922

February 27, 2003

Westport Oil and Gas Company, L.P.  
Attn: Gary D. Williamson  
1670 Broadway, Suite 2800  
Denver, Colorado 80202

Re: Natural Buttes Unit  
Uintah County, Utah

Gentlemen:

On February 27, 2003, we received an indenture dated December 17, 2002, whereby El Paso Production Oil & Gas Company resigned as Unit Operator and Westport Oil and Gas Company, L.P., was designated as Successor Unit Operator for the Natural Buttes Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 27, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Natural Buttes Unit Agreement.

Your nationwide (Colorado) oil and gas bond No. 1203 will be used to cover all operations within the Natural Buttes Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File - Natural Buttes Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:02/27/2003

RECEIVED

FEB 28 2003

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

Exhibit "A"

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

El Paso Production Oil & Gas Company

3. ADDRESS OF OPERATOR:

9 Greenway Plaza

City Houston

STATE TX

ZIP 77064-0995

PHONE NUMBER:

(832) 676-5933

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator change to Westport Oil and Gas Company, L.P., 1670 Broadway, Suite 2800, Denver, CO. 80202-4800, effective December 17, 2002.

BOND # \_\_\_\_\_

State Surety Bond No. RLB0005236

Fee Bond No. RLB0005238

EL PASO PRODUCTION OIL & GAS COMPANY

By: \_\_\_\_\_

Jon R. Nelsen, Attorney-in-Fact

RECEIVED

FEB 28 2003

DIV. OF OIL, GAS & MINING

WESTPORT OIL AND GAS COMPANY, L.P.

NAME (PLEASE PRINT)

David R. Dix

TITLE Agent and Attorney-in-Fact

SIGNATURE

DATE

12/17/02

(This space for State use only)

Form 3160-5  
(August 1999)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

SEE ATTACHED EXHIBIT "A"

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

SEE ATTACHED EXHIBIT "A"

9. API Well No.

SEE ATTACHED EXHIBIT "A"

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL &amp; GAS COMPANY, L.P.

3a. Address

P.O. BOX 1148 VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7023

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED EXHIBIT "A"

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

☐ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ OtherSUCCESSOR OF  
OPERATOR

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zc Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator determined that the site is ready for final inspection.

WESTPORT OIL & GAS COMPANY, L.P., IS CONSIDERED TO BE THE OPERATOR ON THE ATTACHED DESCRIBED LANDS AND IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR THE OPERATIONS CONDUCTED ON THE LEASED LANDS OR PORTIONS THEREOF, BOND COVERAGE FOR THIS WELL IS PROVIDED BY FEDERAL NATIONWIDE BOND NO. 158626364, EFFECTIVE FEBRUARY 1, 2002, AND BIA NATIONWIDE BOND NO. RLB0005239, EFFECTIVE FEBRUARY 10, 2003.

RECEIVED

MAR 04 2003

DIV. OF OIL, GAS &amp; MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

CHERYL CAMERON

Title

OPERATIONS

Date

March 4, 2003

Signature

Approved by

THIS SPACE FOR FEDERAL OR STATE USE

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW✓

3. FILE

## X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: 12-17-02

<b>FROM: (Old Operator):</b>	<b>TO: (New Operator):</b>
EL PASO PRODUCTION OIL & GAS COMPANY	WESTPORT OIL & GAS COMPANY LP
Address: 9 GREENWAY PLAZA	Address: P O BOX 1148
HOUSTON, TX 77064-0995	VERNAL, UT 84078
Phone: 1-(832)-676-5933	Phone: 1-(435)-781-7023
Account No. N1845	Account No. N2115

CA No.

Unit:

NATURAL BUTTES

## WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 59-24B	24-10S-22E	43-047-30479	2900	FEDERAL	GW	PA
NBU 61-25B	25-10S-22E	43-047-30443	2900	FEDERAL	GW	PA
NBU 60-26B	26-10S-22E	43-047-30478	2900	FEDERAL	GW	PA
NBU 58N2	27-10S-22E	43-047-30838	2900	FEDERAL	GW	TA
NBU 39N	29-10S-22E	43-047-30861	2900	FEDERAL	GW	P
NBU 360	29-10S-22E	43-047-33773	2900	FEDERAL	GW	P
NBU 422	29-10S-22E	43-047-34414	2900	FEDERAL	GW	P
NBU 424	29-10S-22E	43-047-34416	2900	FEDERAL	GW	P
NBU 423	29-10S-22E	43-047-34415	2900	FEDERAL	GW	P
NBU 47N2	30-10S-22E	43-047-30534	2900	FEDERAL	GW	S
NBU 351	30-10S-22E	43-047-33668	2900	FEDERAL	GW	P
NBU 384	30-10S-22E	43-047-34237	99999	FEDERAL	GW	APD
NBU 408	31-10S-22E	43-047-34590	99999	FEDERAL	GW	APD
NBU 414	31-10S-22E	43-047-34387	99999	FEDERAL	GW	APD
NBU 361	32-10S-22E	43-047-33705	2900	STATE	GW	P
NBU 407	32-10S-22E	43-047-34318	2900	STATE	GW	P
NBU 412	32-10S-22E	43-047-34319	2900	STATE	GW	P
NBU 413	32-10S-22E	43-047-34320	2900	STATE	GW	P
NBU 466	32-10S-22E	43-047-34824	99999	STATE	GW	APD
NBU 70-34B	34-10S-22E	43-047-30577	2900	FEDERAL	GW	S
NBU 62-35B	35-10S-22E	43-047-30477	2900	FEDERAL	GW	S

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 02/28/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 03/04/2003
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 03/06/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181

5. If NO, the operator was contacted contacted on: \_\_\_\_\_

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM-12/31/2003 BIA-12/5/02

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 02/27/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 03/24/2003

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 03/24/2003

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: RLB 0005236

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 158626364

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB 0005239

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number RLB 0005238

2. The FORMER operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY, L.P.

3a. Address

P.O. BOX 1148 VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Multiple Wells - see attached

5. Lease Serial No.

Multiple Wells - see attached

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

891008900A

8. Well Name and No.

Multiple Wells - see attached

9. API Well No.

Multiple Wells - see attached

10. Field and Pool, or Exploratory Area

Natural Buttes Unit

11. County or Parish, State

Uintah County, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Westport Oil & Gas requests a variance to Onshore Order No. 4, Part IIIC.a. requiring each sales tank be equipped with a pressure-vacuum thief hatch and/or vent line valve. The variance is requested as an economic analysis shows the value of the shrunk condensate will not payout the incremental cost of purchasing and maintaining the valve resulting in a loss of value over the producing life of the well.

The volume lost to shrinkage by dropping the tank pressure from 6 ozs. to 0 psig is shown to be 0.3% of the tank volume. This was determined by lab analysis of a representative sample from the field. The sample shrunk from 98.82% of original volume to 98.52% when the pressure was dropped.

The average NBU well produces approximately 6 bbls condensate per month. The resulting shrinkage would amount to 0.56 bbls per month lost volume due to shrinkage. The value of the shrunk and lost condensate does not recoup or payout the cost of installing and maintaining the valves and other devices that hold the positive tank pressure. An economic run based on the loss and costs is attached.

Westport Oil & gas requests approval of this variance in order to increase the value of the well to the operator and the mineral royalty owners.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

J.T. Conley

Signature

COPY SENT TO OPERATOR

Date:

Initials:

Title

Date

Operations Manager

9-2-2003

SEP 10 2003

DIV OF OIL GAS & MINING

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Federal Approval Of This  
Action Is Necessary

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Date:

9/16/03

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# Westport Oil & Gas, L.P.

## Project Economics Worksheet

### Instructions:

Fill in blue areas with before and after project data. The evaluation results are shown below and graphed automatically at the bottom of the page. This sheet is protected to prevent accidental alteration of the formulas. See JTC for changes. OPX entered as annual costs and/or as unit OPX costs for \$/BF and \$/MCF

Project Name:

Condensate Shrinkage Economics

Is this job a well pull or production rig job ??? ☐ N (Y or N)

	BEFORE \$/Year	AFTER \$/Year	DIFFERENCE \$/Year
Gross Oil Revenue	\$1,088	\$1,099	\$11
Gross Gas Revenue	\$0	\$0	\$0
NGL Revenue	\$0	\$0	\$0
PULLING UNIT SERVICE			\$0
WIRELINE SERVICE			\$0
SUBSURF EQUIP REPAIRS			\$0
COMPANY LABOR			\$0
CONTRACT LABOR	\$0	\$200	\$200
CONTR SERVICE			\$0
LEASE FUEL GAS	\$0	\$0	\$0
UTILITIES - ELECTRICITY	\$0	\$0	\$0
CHEMICAL TREATING			\$0
MATERIAL & SUPPLY	\$0	\$150	\$150
WATER & HAULING			\$0
ADMINISTRATIVE COSTS			\$0
GAS PLANT PROCESSING			\$0
<b>Totals</b>	<b>\$0</b>	<b>\$350</b>	<b>\$350</b>

Increased OPX Per Year

### Investment Breakdown:

	Cap/Exp Code	Cost, \$
Capital \$	820/830/840	\$1,200
Expense \$	830/860	\$0
<b>Total \$</b>		<b>\$1,200</b>

Oil Price	\$ 23.00	\$/BO
Gas Price	\$ 3.10	\$/MCF
Electric Cost	\$ -	\$/ HP / day
OPX/BF	\$ 2.00	\$/BF
OPX/MCF	\$ 0.62	\$/MCF

### Production & OPX Detail:

	Before		After		Difference
Oil Production	0.192	BOPD	0.194	BOPD	0.002
Gas Production	0	MCFPD	0	MCFPD	0
Wtr Production	0	BWPD	0	BWPD	0
Horse Power		HP		HP	0
Fuel Gas Burned		MCFPD		MCFPD	0

### Project Life:

Life = 20.0 Years  
(Life no longer than 20 years)

### Internal Rate of Return:

After Tax IROR = #DIV/0!

### AT Cum Cashflow:

Operating Cashflow = (\$2,917) (Discounted @ 10%)

### Payout Calculation:

Payout =  $\frac{\text{Total Investment}}{\text{Sum(OPX + Incremental Revenue)}}$  = 1

Payout occurs when total AT cashflow equals investment  
See graph below, note years when cashflow reaches zero

Payout = NEVER Years or #VALUE! Days

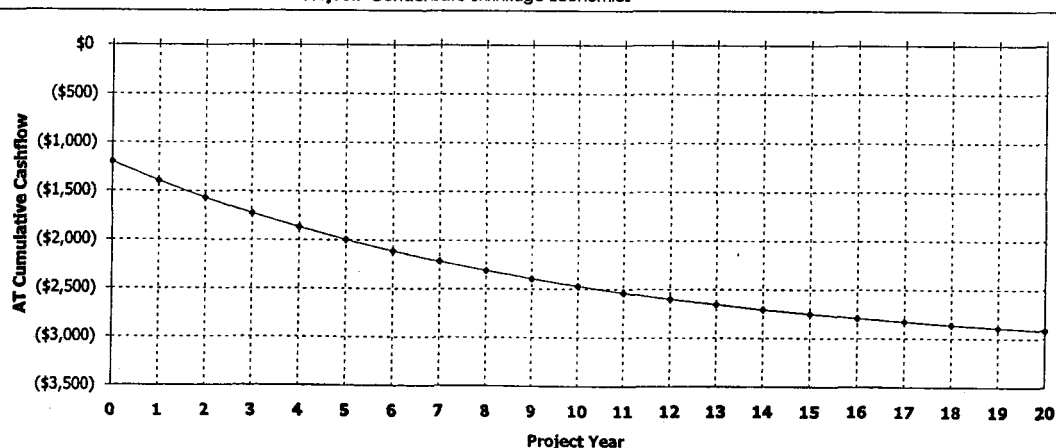
### Gross Reserves:

Oil Reserves = 6 BO  
Gas Reserves = 0 MCF  
Gas Equiv Reserves = 38 MCFE

### Notes/Assumptions:

An average NBU well produces 0.192 Bcpd with no tank pressure. The production is increased to 0.194 Bcpd if 4 ozs of pressure are placed on the tank. The increased production does not payout the valve cost or the estimated annual maintenance costs.

### Project: Condensate Shrinkage Economics



# Westport Oil and Gas, Inc.

NBU/Ouray Field

RFL 2003-022

## COMPARISON OF FLASH BACK PRESSURES

Calculated by Characterized Equation-of-State

Flash Conditions		Gas/Oil Ratio ( scf/STbbl ) (A)	Specific Gravity of Flashed Gas ( Air=1.000 )	Separator Volume Factor (B)	Separator Volume Percent (C)
psig	°F				

### Calculated at Laboratory Flash Conditions

80	70			1.019	
0	122	30.4	0.993	1.033	101.37%
0	60	0.0	—	1.000	98.14%

### Calculated Flash with Backpressure using Tuned EOS

80	70			1.015	
6.0 oz	65	24.6	0.777	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
4.0 oz	65	24.7	0.778	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
2.0 oz	65	24.7	0.779	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
0	65	24.8	0.780	1.003	98.82%
0	60	0.0	—	1.000	98.52%

(A) Cubic Feet of gas at 14.696 psia and 60 °F per Barrel of Stock Tank Oil at 60 °F.

(B) Barrels of oil at indicated pressure and temperature per Barrel of Stock Tank Oil at 60 °F.

(C) Oil volume at indicated pressure and temperature as a percentage of original saturated oil volume.

Note: Bubblepoint of sample in original sample container was 80 psig at 70° F with 1 cc water

CIGE 276	21-10-21 SWNW	UTU02278	891008900A	430473441700S1
CIGE 277	21-10-21 NWNW	UTU02278	891008900A	430473480000S1
CIGE 278	14-10-21 NESE	UTU01393C	891008900A	430473444500S1 ✓
CIGE 279	14-10-21 SESE	UTU01393C	891008900A	430473447900S1 ✓
CIGE 280	5-10-22 SWNW	UTU01195	891008900A	430473444300S1 ✓
CIGE 281	5-10-22 NWSW	UTU01191A	891008900A	430473444400S1 ✓
CIGE 282	7-10-22 NENE	ML23609	891008900A	430473443600S1 ✓
CIGE 283	35-9-21 SESE	ML22582	891008900A	430473479000S1 ✓
CIGE 284	1-10-21 SWNW	ML23612	891008900A	430473479200S1
CIGE 285	2-10-21 NENE	ML22652	891008900A	430473479300S1
CIGE 286	9-10-21 SENE	U01416	891008900A	430473479700S1
CIGE 287	9-10-21 NWSE	U01416	891008900A	430473479800S1
CIGE 288	21-9-21 NWSE	UTU0576	891008900A	430473485000S1 ✓
CIGE 289	7-9-21 NWSE	UTU0575B	891008900A	430473485500S1 ✓
CIGE 290	10-10-21 NESE	UTU0149079	891008900A	430473486900S1
CIGE 291	10-10-21 NWSE	UTU0149079	891008900A	430473486800S1
CIGE 292	8-10-22 SESE	UTU01196E	891008900A	430473487100S1
CIGE 293	8-10-22 SWSE	UTU01196E	891008900A	430473483800S1
CIGE 294	8-10-22 NENW	UTU468	891008900A	430473487000S1
CIGE 295	14-10-22 NENW	UTU01197A-ST	891008900A	430473482000S1
CIGE 296	14-10-22 NWNW	U01197A-ST	891008900A	430473485800S1 ✓
CIGE 297	14-10-22 SWNW	U01197A-ST	891008900A	430473485700S1 ✓
CIGE 298	9-10-22 SESW	UTU01196B	891008900A	430473485500S1
CIGE 299	14-10-22 NWSW	UTU468	891008900A	430473485900S1
NBU 004	23-9-21 NESE	UTU0149075	891008900A	430473005600S1
NBU 006	24-9-21 NWSE	UTU0149076	891008900A	430473008300S1
NBU 015	26-9-21 SESW	U99070-01	891008900A	430473020400S1
NBU 016	34-9-22 SWSE	UTU0149077	891008900A	430473020900S1
NBU 018	10-10-22 SWNE	UTU025187	891008900A	430473022100S1
NBU 020	28-9-21 NESW	U05676	891008900A	430473025000S1
NBU 022	18-10-22 SENE	ML22973	891008900A	430473025600S1
NBU 023	19-9-22 SWNE	UTU0284	891008900A	430473086800S1
NBU 024N2	12-10-22 SESE	U01197A	891008900A	430473053500S1
NBU 026	27-9-21 CSE	U01194A	891008900A	430473025200S1 ✓
NBU 027	33-9-21 NESW	U015630	891008900A	430473030400S1
NBU 027A	33-9-21 SWNE	U015630	891008900A	430473039800S1
NBU 028	13-10-21 NWSE	ML23608	891008900A	430473030500S1
NBU 029	11-10-21 NESW	UTU0149080	891008900A	430473030200S1
NBU 030	16-10-22 SWSE	ML22653	891008900A	430473030600S1
NBU 031	11-10-22 SESW	U01197A	891008900A	430473030700S1 ✓
NBU 032Y	20-9-22 NWNW	UTU0284	891008900A	430473051400S1
NBU 033Y	18-10-21 NWNW	UTU02270A	891008900A	430473050400S1
NBU 035Y	29-9-21 NWSE	UTU0581	891008900A	430473050300S1
NBU 036Y	30-9-21 SENE	UTU0581	891008900A	430473060300S1
NBU 037XP	3-10-22 SESE	UTU01191A	891008900A	430473072400S1
NBU 038N2	13-10-22 NWSW	U06512	891008900A	430473053600S1
NBU 039	29-10-22 SWSW	UTU0132568A	891008900A	430473086100S1
NBU 041J	31-9-22 NWSW	ML23607	891008900A	430473122400S1 ✓
NBU 042	30-9-22 SENW	U463	891008900A	430473173500S1
NBU 043	26-10-20 NWSE	UTU4476	891008900A	430473084800S1
NBU 045N2	12-9-20 NWSW	UTU0144868B	891008900A	430473087500S1
NBU 046	4-10-22 NWSE	UTU01191	891008900A	430473051300S1
NBU 047N2	30-10-22 SESW	UTU0132568A	891008900A	430473053400S1
NBU 048N3	18-9-22 SWNW	UTU0359	891008900A	430473053800S1
NBU 049	30-9-22 NWNE	U463	891008900A	430473124900S1
NBU 050N2	31-9-22 NWNW	ML23607	891008900A	430473083500S1 ✓
NBU 051J	32-9-22 NWSE	ML22649	891008900A	430473123400S1 ✓
NBU 052J	30-9-22 NWSW	U463	891008900A	430473085000S1
NBU 053	9-9-21 SENW	UTU0149787	891008900A	430473083700S1
NBU 054	32-9-22 NESW	ML22649	891008900A	430473089000S1 ✓
NBU 056N2	28-9-21 NESE	U05676	891008900A	430473088400S1
NBU 057N3	27-9-21 NENW	U01194	891008900A	430473086700S1 ✓

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY, L.P.

3a. Address

1368 SOUTH 1200 EAST, VERNAL, UT 84078

3b. Phone No. (include area code)

435-781-7060

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SESW SEC 30-T10S-R22E 818' FSL 854' FWL

5. Lease Serial No.

U-0132568-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NATURAL BUTTES UNIT

8. Well Name and No.

NBU 47N2

9. API Well No.

43-047-30534

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH, UTAH

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

WESTPORT OIL & GAS COMPANY PROPOSES TO CONVERT THE NBU47N2 WELL FROM A PRODUCING WELL TO A CLASS II WATER INJECTION WELL TO DISPOSE OF PRODUCED WATERS FROM NBU WELLS AS PER THE ATTACHED PROCEDURES.

APPLICATION TO THE EPA-UIC FOR A CLASS II INJECTION WELL WAS MADE ON 3/19/04.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

**RECEIVED**

**MAR 22 2004**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

DEBRA DOMENICI

Title

SR ADMINISTRATIVE ASSISTANT

Signature

Date

March 19, 2004

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**NBU 47N2 CONVERSION TO INJECTION**  
**GENERALIZED PROCEDURE:**

- All perforation depths will be from the Baker Atlas GR- Neutron-Density log dated 29 December 1981.
- **Perforations and fracture stages are conceptual at present.** Exact perforation intervals, shot densities and treating stage designs are to be determined.

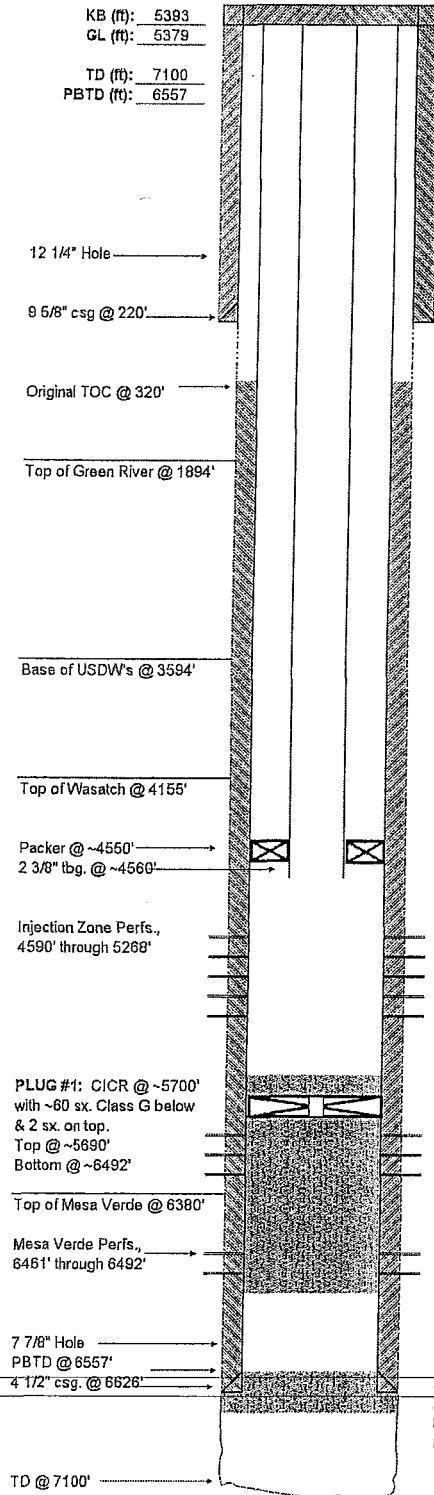
**PROCEDURE:**

1. Notify EPA two weeks in advance so that EPA representative may be present for wellwork operations.
  2. MIRU. NU & test BOP. TOH with tubing.
  3. TIH with bit on tubing and clean out to 6557' PBTD. Circulate hole clean with 2% KCL. POOH.
  4. **Plug #1:** RU wireline and set CICR at ~5700'. Establish injection rate and cement squeeze perforations across gross interval 5734' through 6492' with a minimum of 60 sx Class G (~70 cuft.). Sting out of CICR and spot 2 sx cement on top. Circulate tubing clean and TOH.
  5. TIH and set RBP at ~4900'. Pressure test casing and BOP to 7500 psi. Retrieve RBP and TOH.
  6. Perforate sandstone zones in the gross interval 4958' through 5268' with 3-1/8" HSC, 0.35" hole. Breakdown perfs and establish injection rate. Fracture with conventional gelled water system containing 20/40 mesh sand. Under-displace to ~4920'.
  7. Set 10000 psi CBP at ~4900'. Perforate sandstone zones in the gross interval 4590' through 4828' with 3-1/8" HSC, 0.35" hole. Breakdown perfs and establish injection rate. Fracture with conventional gelled water system containing 20/40 mesh sand. Under-displace to ~4500'.
  8. Set 5000 psi CBP at ~4450'.
  9. TIH with 3 7/8" bit on tubing. Drill out CBP's and clean out to new PBTD of ~5690'. TOH laying down old tubing.
  10. PU 6' tubing sub, profile nipple, retrievable packer, on/off tool and new 2 3/8" tubing and TIH to ~4550'. Circulate packer fluid and freeze blanket in place, set packer and land tubing.
  11. ND BOPE and NU wellhead. Conduct MIT per EPA guidelines to satisfaction of EPA representative.
  12. RDMO
-

NBU 47N2  
SWSW-Sec. 30-T10S-R22E

WELL: NBU 47N2	CNTY: UTAH	FT.: 818' FSL, 854' FWL
FIELD: NATURAL BUTTES	STATE: UTAH	Q-Q: SWSW
API #: 43-047-30534		SEC.: 30
LEASE #: UTU-0132568A		TWS: 10S
EPA PERMIT #:		RGE: 22E

## PROPOSED WELLBORE DIAGRAM



### CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	9 5/8	36	K-55	0	220
7 7/8	4 1/2	11.6	N-80	0	6626

### TUBING RECORD

SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
2 3/8	4.7	J-55	0	4903

ITEM	MAKER	SIZE (in)	TOP (ft)
On/Off Tool	TBD	2 3/8	~4549
Packer	TBD	4 1/2	~4550
6" sub	TBD	2 3/8	~4554
RN nipple	TBD	2 3/8	~4560

### INJECTION ZONE PERFORATIONS

ZONE	TOP (ft)	BTM (ft)	SPF	DATE SHOT	STATUS
Wasatch	4,590	4,616	TBD	NEW	PROPOSED
Wasatch	4,684	4,700	TBD	NEW	PROPOSED
Wasatch	4,766	4,788	TBD	NEW	PROPOSED
Wasatch	4,820	4,828	TBD	NEW	PROPOSED
Wasatch	4,958	4,990	TBD	NEW	PROPOSED
Wasatch	5,094	5,108	TBD	NEW	PROPOSED
Wasatch	5,170	5,206	TBD	NEW	PROPOSED
Wasatch	5,236	5,245	TBD	NEW	PROPOSED
Wasatch	5,262	5,268	TBD	NEW	PROPOSED

### EXCLUDED PERFORATIONS

ZONE	TOP (ft)	BTM (ft)	SPF	DATE SHOT	STATUS
Wasatch	5,734	5,735	1	11/20/96	SQUEEZED
Wasatch	5,736	5,737	1	11/20/96	SQUEEZED
Wasatch	5,738	5,739	1	11/20/96	SQUEEZED
Wasatch	5,884	5,885	1	01/19/82	SQUEEZED
Wasatch	5,886	5,887	4	07/13/95	SQUEEZED
Wasatch	5,889	5,890	1	01/19/82	SQUEEZED
Wasatch	5,893	5,894	1	01/19/82	SQUEEZED
Wasatch	6,230	6,231	4	07/13/95	SQUEEZED
Wasatch	6,232	6,233	4	07/13/95	SQUEEZED
Wasatch	6,234	6,235	4	07/13/95	SQUEEZED
Wasatch	6,362	6,363	4	07/13/95	SQUEEZED
Wasatch	6,363	6,364	4	07/13/95	SQUEEZED
Mesa Verde	6,461	6,462	2	01/19/82	SQUEEZED
Mesa Verde	6,462	6,463	4	07/13/95	SQUEEZED
Mesa Verde	6,478	6,479	4	07/13/95	SQUEEZED
Mesa Verde	6,479	6,480	2	01/19/82	SQUEEZED
Mesa Verde	6,484	6,485	4	07/13/95	SQUEEZED
Mesa Verde	6,486	6,487	4	07/13/95	SQUEEZED
Mesa Verde	6,488	6,489	2	01/19/82	SQUEEZED
Mesa Verde	6,492	6,493	4	07/13/95	SQUEEZED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18th STREET - SUITE 300  
DENVER, CO 80202-2466  
<http://www.epa.gov/region08>

MAR 24 2005

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. John Conley  
Western Division Operations Manager  
Westport Oil & Gas Co., L.P.  
1368 South 1200 East  
Vernal, UT 84078

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

Re: Underground Injection Control Program  
Final Permit for the NBU 47N2 Well  
Uintah County, UT  
EPA Permit No. UT20972-06389

Dear Mr. Conley:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed NBU 47N2 injection well. A Statement of Basis, which discusses development of the conditions and requirements of the Permit, also is included.

The Public Comment period ended on MAR - 3 2005. There were no comments on the Draft Permit received during the Public Notice period, and therefore the Final Permit becomes effective on the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this Permit becomes effective.

Please note that under the terms of the Final Permit, you are authorized only to construct the proposed injection well, and must fulfill the "Prior to Commencing Injection" requirements of the Permit, Part II Section C Subpart 1 and obtain written Authorization to Inject prior to commencing injection. It is your responsibility to be familiar with and to comply with all provisions of the Final Permit.

The Permit and the authorization to inject are issued for the operating life of the well unless terminated (Part III, Section B). The EPA will review this Permit at least every five (5) years to determine whether action under 40 CFR § 144.36(a) is warranted.

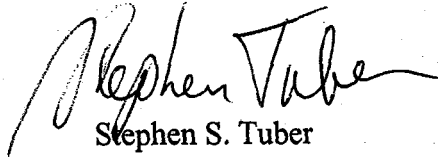


Printed on Recycled Paper



If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 6174.

Sincerely,



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit  
Statement of Basis  
Form 7520-7 Application to Transfer Permit  
Form 7520-11 Monitoring Report  
Form 7520-14 Plugging Plan  
Form 7520-12 Well Rework Record  
Groundwater Section Guidance 35  
Groundwater Section Guidance 39

cc: Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Elaine Willie  
Environmental Coordinator  
Ute Indian Tribe

Chester Mills  
Superintendent  
Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

Gil Hunt  
Technical Services Manager  
State of Utah - Natural Resources  
Division of Oil, Gas and Mining



Kirk Fleetwood  
Petroleum Engineer  
Bureau of Land Management  
Vernal District



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**UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT**

**PREPARED: March 2005**

**Permit No. UT20972-06389**

**Class II Salt Water Disposal Well**

**NBU 47N2  
Uintah County, UT**

**Issued To**

**Westport Oil and Gas Company, L.P.**

**1670 Broadway**

**Suite 2800**

**Denver, CO 80202-4801**

## Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Westport Oil and Gas Company, L.P.  
1670 Broadway  
Suite 2800  
Denver, CO 80202-4801

is authorized to construct and to operate the following Class II injection well or wells:

NBU 47N2  
818' FSL & 854' FWL, SESW S30, T10S, R22E  
Uintah County, UT

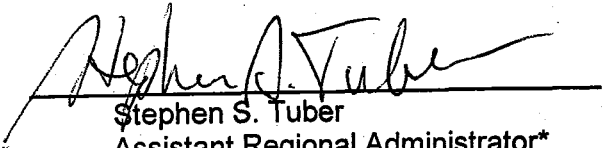
Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well or wells unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

Issue Date: MAR 24 2005

Effective Date MAR 24 2005

  
Stephen S. Tuber  
Assistant Regional Administrator\*  
Office of Partnerships and Regulatory Assistance

\*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

## **PART II. SPECIFIC PERMIT CONDITIONS**

### **Section A. WELL CONSTRUCTION REQUIREMENTS**

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

#### **1. Casing and Cement.**

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

#### **2. Injection Tubing and Packer.**

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

#### **3. Sampling and Monitoring Devices.**

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
  - (i) on the injection tubing; and
  - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

#### **4. Well Logging and Testing**

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

#### **5. Postponement of Construction or Conversion**

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate can be reissued.

#### **6. Workovers and Alterations**

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

### **Section B. MECHANICAL INTEGRITY**

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).



### **1. Demonstration of Mechanical Integrity (MI).**

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

### **2. Mechanical Integrity Test Methods and Criteria**

EPA-approved methods shall be used to demonstrate mechanical integrity. A current copy of Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are provided at issuance of this Permit.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

### **3. Notification Prior to Testing.**

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

### **4. Loss of Mechanical Integrity.**

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit), and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

## **Section C. WELL OPERATION**

**INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.**

Injection is approved under the following conditions:

### **1. Requirements Prior to Commencing Injection.**

Injection operation may commence only after all construction and pre-injection requirements herein have been met and approved. Except for new wells authorized by an Area Permit under 40 CFR 144.33 (c), the Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
  - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
  - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

### **2. Injection Interval.**

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

### **3. Injection Pressure Limitation**

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injected or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

#### **4. Injection Volume Limitation.**

Injection volume is limited to the total volume specified in APPENDIX C.

#### **5. Injection Fluid Limitation.**

Injected fluids are limited to those which are brought to the surface in connection with conventional oil or natural gas production and may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). The well also may be used to inject approved Class II wastes brought to the surface such as drilling fluids and spent well completion, treatment and stimulation fluids. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved. This well is NOT approved for commercial brine or other fluid disposal operation.

#### **6. Tubing-Casing Annulus (TCA)**

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

### **Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS**

#### **1. Monitoring Parameters, Frequency, Records and Reports.**

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

#### **2. Monitoring Methods.**

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

### **3. Records Retention.**

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

### **4. Annual Reports.**

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D. The report of fluids injected during the year must identify each new fluid source by well name and location, and the field name or facility name.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

## **Section E. PLUGGING AND ABANDONMENT**

### **1. Notification of Well Abandonment, Conversion or Closure.**

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

### **2. Well Plugging Requirements**

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

### **3. Approved Plugging and Abandonment Plan.**

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

### **4. Forty Five (45) Day Notice of Plugging and Abandonment.**

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

### **5. Plugging and Abandonment Report.**

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

### **6. Inactive Wells.**

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;

- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

## **PART III. CONDITIONS APPLICABLE TO ALL PERMITS**

### **Section A. EFFECT OF PERMIT**

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

### **Section B. CHANGES TO PERMIT CONDITIONS**

#### **1. Modification, Reissuance, or Termination.**

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

#### **2. Conversions.**

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

#### **3. Transfer of Permit.**

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

#### **4. Permittee Change of Address.**

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

#### **5. Construction Changes, Workovers, Logging and Testing Data**

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

### **Section C. SEVERABILITY**

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

### **Section D. CONFIDENTIALITY**

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

### **Section E. GENERAL PERMIT REQUIREMENTS**

#### **1. Duty to Comply.**

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.



**2. Duty to Reapply.**

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

**3. Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

**4. Duty to Mitigate.**

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

**5. Proper Operation and Maintenance.**

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

**6. Permit Actions.**

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

**7. Property Rights.**

This Permit does not convey any property rights of any sort, or any exclusive privilege.

**8. Duty to Provide Information.**

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

**9. Inspection and Entry.**

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

#### **10. Signatory Requirements.**

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

#### **11. Reporting Requirements.**

- (a) **Planned changes.** The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) **Anticipated noncompliance.** The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Monitoring Reports.** Monitoring results shall be reported at the intervals specified in this Permit.
- (d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) **Twenty-four hour reporting.** The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
  - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
  - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

## **Section F. FINANCIAL RESPONSIBILITY**

### ***1. Method of Providing Financial Responsibility.***

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

### ***2. Insolvency.***

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

## APPENDIX A

### WELL CONSTRUCTION REQUIREMENTS

See diagram.

The former Wasatch/Mesaverde Formations oil well will be converted to a salt water disposal (SWD) well with injection into the proposed Upper Wasatch interval 4590 feet to 5268 feet. The interval will be selectively perforated upon conversion.

9-5/8 inch surface casing was set at 220 feet in a 12-1/4 inch hole and cemented with 125 sacks of Class "G" which was circulated to the surface.

4-1/2 inch production casing was set in a 7-7/8 inch hole at a depth of 6626 feet. The production string was cemented with 2800 sacks of 50/50 Pozmix. Operator picked the top of cement at 320 feet by Cement bond Log (CBL). (CBL dated November 18, 1996).

The EPA calculated the interval of 80% bond index cement bond as 3000 feet to CBL total depth at 4927 feet. (CBL dated March 24, 2003).

The operator will use 2-3/8 inch tubing with the packer set no more than 100 feet above the top perforation.

Driller TD: 7100 feet.

Plug Back TD: 6557 feet.

NBU 47N2  
 SESW-Sec. 30-T10S-R22E  
 Underground Injection Control  
 Permit Application

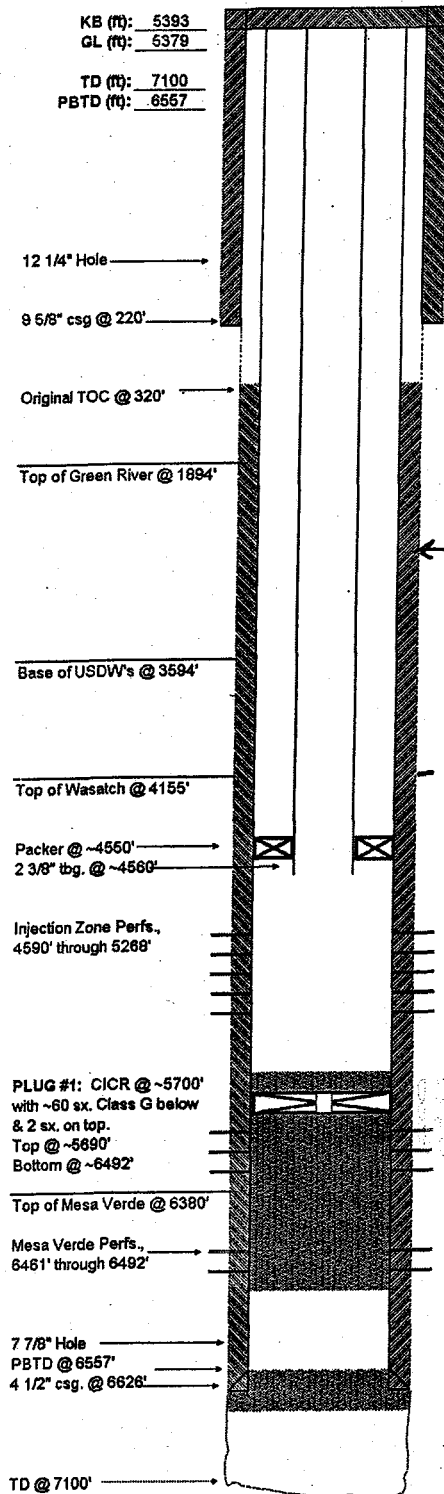
ATTACHMENT M2

WELL: NBU 47N2  
 FIELD: NATURAL BUTTES  
 API #: 43-047-30534  
 LEASE #: UTU-0132568A  
 EPA PERMIT #:

CNTY: UTAH  
 STATE: UTAH

FT.: 818' FSL, 854' FWL  
 Q-Q: SESW  
 SEC.: 30  
 TWS: 105  
 RGE: 22E

## PROPOSED WELLBORE DIAGRAM



### CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	9 5/8	36	K-55	0	220
7 7/8	4 1/2	11.6	N-80	0	6626

### TUBING RECORD

SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
2 3/8	4.7	J-55	0	4903

ITEM	MAKER	SIZE (in)	TOP (ft)
On/Off Tool	TBD	2 3/8	~4549
Packer	TBD	4 1/2	~4550
6' sub	TBD	2 3/8	~4554
RN nipple	TBD	2 3/8	~4560

### INJECTION ZONE PERFORATIONS

ZONE	TOP (ft)	BTM (ft)	SPF	DATE SHOT	STATUS
Wasatch	4,590	4,616	TBD	NEW	PROPOSED
Wasatch	4,684	4,700	TBD	NEW	PROPOSED
Wasatch	4,766	4,788	TBD	NEW	PROPOSED
Wasatch	4,820	4,828	TBD	NEW	PROPOSED
Wasatch	4,958	4,990	TBD	NEW	PROPOSED
Wasatch	5,084	5,108	TBD	NEW	PROPOSED
Wasatch	5,170	5,206	TBD	NEW	PROPOSED
Wasatch	5,235	5,245	TBD	NEW	PROPOSED
Wasatch	5,262	5,268	TBD	NEW	PROPOSED

80% TOC 3000' Log TOC 4927'  
 4126' - 4590' Confining Zone

### EXCLUDED PERFORATIONS

ZONE	TOP (ft)	BTM (ft)	SPF	DATE SHOT	STATUS
Wasatch	5,734	5,735	1	11/20/86	SQUEEZED
Wasatch	5,796	5,737	1	11/20/86	SQUEEZED
Wasatch	5,738	5,739	1	11/20/86	SQUEEZED
Wasatch	5,884	5,885	1	01/19/82	SQUEEZED
Wasatch	5,886	5,887	4	07/13/85	SQUEEZED
Wasatch	5,889	5,890	1	01/19/82	SQUEEZED
Wasatch	5,893	5,894	1	01/19/82	SQUEEZED
Wasatch	6,230	6,231	4	07/13/85	SQUEEZED
Wasatch	6,232	6,233	4	07/13/85	SQUEEZED
Wasatch	6,234	6,235	4	07/13/85	SQUEEZED
Wasatch	6,362	6,363	4	07/13/85	SQUEEZED
Wasatch	6,363	6,364	4	07/13/85	SQUEEZED
Mesa Verde	6,481	6,482	2	01/19/82	SQUEEZED
Mesa Verde	6,482	6,483	4	07/13/85	SQUEEZED
Mesa Verde	6,478	6,479	4	07/13/85	SQUEEZED
Mesa Verde	6,479	6,480	2	01/19/82	SQUEEZED
Mesa Verde	6,484	6,485	4	07/13/85	SQUEEZED
Mesa Verde	6,486	6,487	4	07/13/85	SQUEEZED
Mesa Verde	6,488	6,489	2	01/19/82	SQUEEZED
Mesa Verde	6,492	6,493	4	07/13/85	SQUEEZED

## APPENDIX B

### LOGGING AND TESTING REQUIREMENTS

#### Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

### NO LOGGING REQUIREMENTS

#### Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

<b>WELL NAME: NBU 47N2</b>	
<b>TYPE OF TEST</b>	<b>DATE DUE</b>
Step Rate Test	Within a 180-day period following commencement of injection
Injection Zone Water Sample	Prior to Authorization to Inject
Annulus Monitoring	Prior to Authorization to Inject
Pore Pressure	Prior to Authorizatiion to Inject

## APPENDIX C

### OPERATING REQUIREMENTS

#### MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
NBU 47N2	1,635

#### INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: NBU 47N2			
FORMATION NAME	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
Wasatch	4,590.00 - 5,268.00		0.800

#### ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

#### MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.



## APPENDIX D

### MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE WEEKLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and averaged annulus pressure(s) (psig)
	Each month's averaged injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

**Westport Oil & Gas Co., L.P.  
1368 South 1200 East  
Vernal, UT 84078**

## APPENDIX E

### PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

All cement plugs will be set with tubing.

9.2 plugging gel, or fresh water weighted with bentonite or treated brine will be placed between all cement plugs.

PLUG NO. 1: Wasatch-Mesaverde production perforations 5734 feet through 6493 feet were cement squeezed during conversion of the NBU No. 47N2 to a salt water disposal well. Cast iron cement retainer (CICR) set at 5700 feet with 60 sacks of Class "G" below the CICR, and capped with two sacks of Class "G".

PLUG NO. 2: Set CICR approximately 4575 feet with approximately 53 sacks of Class "G" below the CICR, and 2 sacks on top of the CICR. Plug will be across gross authorized injection interval of 4590 feet through 5268 feet.

PLUG NO. 3: Set cast iron bridge plug (CIBP) approximately 4205 feet. Set 8 sacks of Class "G" on top of CIBP (4105 feet to 4205 feet). Plug set across Wasatch top at 4155 feet.

PLUG NO. 4: Set CIBP at 3644 feet, capped with 8 sacks of Class "G" cement (3544 feet through 3644 feet). Base of USDW at 3594 feet.

PLUG NO. 5: Set CIBP at 1944 feet, capped with 8 sacks of Class "G" cement (1844 feet through 1944 feet). Top of Green River Formation at 1894 feet.

PLUG NO. 6: Perforate at 300 feet. Circulate cement to surface on backside of 4-1/2 inch casing. Circulate cement to surface inside of 4-1/2 inch casing.

NBU 47N2  
 SESW-Sec. 30-T10S-R22E  
 Underground Injection Control  
 Permit Application

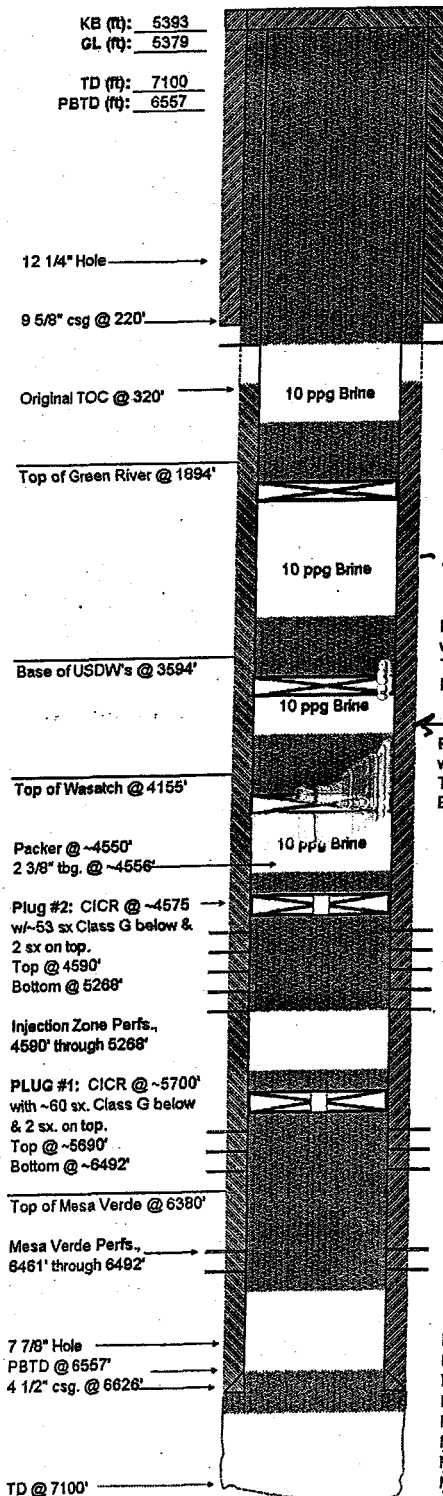
ATTACHMENT Q3

WELL: NBU 47N2  
 FIELD: NATURAL BUTTES  
 API # 43-047-30534  
 LEASE #: UTU-0132568A  
 EPA PERMIT #:

CNTY: UTAH  
 STATE: UTAH

FT.: 818' FSL, 854' FWL  
 Q-Q: SESW  
 SEC.: 30  
 TWS: 10S  
 RGE: 22E

PROPOSED P&A WELLBORE DIAGRAM



CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	9 5/8	36	K-55	0	220
7 7/8	4 1/2	11.6	N-80	0	6626

Plug #6: Perf. @ 300'  
 min. of ~84 sx Class G circulated  
 around surf. csg. shoe, 23 sx in 4 1/2\"

Plug #5: CIBP @ 1944'  
 w/~8 sx Class G on top.  
 Top @ 1944'  
 Bottom @ 1944'

Plug #4: CIBP @ 3644'  
 w/~8 sx Class G on top.  
 Top @ 3644'  
 Bottom @ 3644'

Plug #3: CIBP @ 4205'  
 w/~8 sx Class G on top.  
 Top @ 4105'  
 Bottom @ 4205'

EXCLUDED PERFORATIONS

ZONE	TOP (ft)	BTM (ft)	SPF	DATE SHOT	STATUS
Wasatch	4,590	4,616	TBD	NEW	PROPOSED
Wasatch	4,684	4,700	TBD	NEW	PROPOSED
Wasatch	4,766	4,788	TBD	NEW	PROPOSED
Wasatch	4,820	4,828	TBD	NEW	PROPOSED
Wasatch	4,958	4,990	TBD	NEW	PROPOSED
Wasatch	5,084	5,108	TBD	NEW	PROPOSED
Wasatch	5,170	5,206	TBD	NEW	PROPOSED
Wasatch	5,235	5,245	TBD	NEW	PROPOSED
Wasatch	5,262	5,268	TBD	NEW	PROPOSED
Wasatch	5,734	5,735	1	11/20/86	SQUEEZED
Wasatch	5,736	5,737	1	11/20/86	SQUEEZED
Wasatch	5,738	5,739	1	11/20/86	SQUEEZED
Wasatch	5,884	5,885	1	01/19/82	SQUEEZED
Wasatch	5,886	5,887	4	07/13/85	SQUEEZED
Wasatch	5,889	5,890	1	01/19/82	SQUEEZED
Wasatch	5,893	5,894	1	01/19/82	SQUEEZED
Wasatch	6,230	6,231	4	07/13/85	SQUEEZED
Wasatch	6,232	6,233	4	07/13/85	SQUEEZED
Wasatch	6,234	6,235	4	07/13/85	SQUEEZED
Wasatch	6,362	6,363	4	07/13/85	SQUEEZED
Wasatch	6,363	6,364	4	07/13/85	SQUEEZED
Mesa Verde	6,461	6,462	2	01/19/82	SQUEEZED
Mesa Verde	6,462	6,463	4	07/13/85	SQUEEZED
Mesa Verde	6,478	6,479	4	07/13/85	SQUEEZED
Mesa Verde	6,479	6,480	2	01/19/82	SQUEEZED
Mesa Verde	6,484	6,485	4	07/13/85	SQUEEZED
Mesa Verde	6,486	6,487	4	07/13/85	SQUEEZED
Mesa Verde	6,488	6,489	2	01/19/82	SQUEEZED
Mesa Verde	6,492	6,493	4	07/13/85	SQUEEZED

-3000' to CBL TD @ 4927' TOP 80% CEMENT

4126' - 4590' Confining Zone

# **STATEMENT OF BASIS**

**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU 47N2**

**UINTAH COUNTY, UT**

**EPA PERMIT NO. UT20972-06389**

**CONTACT:** Emmett Schmitz  
U. S. Environmental Protection Agency  
Ground Water Program, 8P-W-GW  
999 18th Street, Suite 300  
Denver, Colorado 80202-2466  
Telephone: 1-800-227-8917 ext. 6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the conversion and operation of a "new" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

## PART I. General Information and Description of Facility

Westport Oil and Gas Company, L.P.  
1670 Broadway  
Suite 2800  
Denver, CO 80202-4801

on

March 22, 2004

submitted an application for an Underground Injection Control (UIC) Program Permit for the following injection well or wells:

The NBU 47N2 is currently an uneconomic Wasatch and Mesaverde oil well. The applicant intends to convert this well to a non-commercial salt water disposal (SWD) facility. As detailed in Appendix A (Well Construction Requirements), the permittee will dispose of permittee/operator produced Natural Buttes Field Wasatch/Mesaverde Formations water via proposed Wasatch perforations (gross) 4590 feet to 5268 feet.

NBU 47N2  
818' FSL & 854' FWL, SESW S30, T10S, R22E  
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

### GEOLOGIC SETTING: UINTA BASIN, UTAH

#### Geologic Setting

The well is located in the Natural Buttes Unit (NBU) near the center of the broad, gently northward dipping south flank of the Uinta Basin. The beds dip at about 200'/mile, and there are no known surface folds or faults in the field. The lower 600' to 800' of the Uinta Formation, generally consisting of 5' to 20' thick brown lenticular fluvial sandstone and interbedded varicolored shales, outcrops at the surface in this area. The Uinta is underlain by the Green River Formation which consists of lake (lacustrine) margin sandstones, limestone and shale beds that were deposited along the edges and on the broad level floor of Lake Uinta as it expanded and contracted through

time. Underlying the Green River Formation is the Wasatch Formation, which is approximately 2400' thick in this area and consists of red alluvial shales and siltstone with scattered lenticular sandstones usually 10' to 50' thick. Below the Wasatch Formation is the Mesaverde Formation; a series of interbedded continental deposits of shale, sandstone, and coal. Water samples of analyzed Mesaverde sand in the area of Natural Buttes Unit yield highly saline water.

#### Geologic Information

The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km ) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by ancestral Lake Uinta. Deposition in and around Lake Uinta consisted of open- to marginal-lacustrine sediments that make up the Green River Formation. Alluvial red-bed deposits that are laterally equivalent to and intertongue with the Green River make up the Colton Formation (Wasatch). More than 450 million barrels of oil (63 MT) have been produced from the Green River and Wasatch Formations in the Uinta Basin. The southern shore of Lake Uinta was very broad and flat, which allowed large transgressive and regressive shifts in the shoreline in response to climatic and tectonic-induced rise and fall of the lake. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked deltaic deposits. Distributary-mouth bars, distributary channels, and near-shore bars are the primary producing sandstone reservoirs in the area (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report 4/1/99 - 9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103). The Tertiary Duchesne River Formation alluvium generally is present at the surface in this area,

**TABLE 1.1**  
**WELL STATUS / DATE OF OPERATION**

CONVERSION WELLS		
Well Name	Well Status	Date of Operation
NBU 47N2	Conversion	N/A

### Hydrogeologic Setting

#### Geologic Setting (TABLE 2.1)

**TABLE 2.1**  
**GEOLOGIC SETTING**  
**NBU 47N2**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Wasatch and Mesaverde	4,155.00	6,557.00	23,087.00 - 40,427.00	The Wasatch Formation was deposited in a continental fluvial-alluvial depositional system where the predominate stream systems were meandering. The gross lithology proposed for injection consists of lenticular fluvial-alluvial point bars, channel and alluvial overbank sandstone interbedded with mudstone and shale. The Mesaverde is a continental sequence of sand, coal and shale.

**Proposed Injection Zone(s) (TABLE 2.2)**

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by the confining zone which is free of known open faults or fractures within the Area of Review.

The permittee will dispose of produced Wasatch and Mesaverde water into an authorized gross Upper Wasatch perforated interval 4590 feet to 5268 feet.

**TABLE 2.2**  
**INJECTION ZONES**  
**NBU 47N2**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Wasatch	4,590.00	5,268.00		0.800	10.00%	N/A

\* C - Currently Exempted  
E - Previously Exempted  
P - Proposed Exemption  
N/A - Not Applicable

**Confining Zone(s) (TABLE 2.3)**

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.



**TABLE 2.3**  
**CONFINING ZONES**  
**NBU 47N2**

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Wasatch	Shale	4,392.00	4,590.00

**Underground Sources of Drinking Water (USDWs) (TABLE 2.4)**

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

The State of Utah "Water Wells and Springs", <http://NRWRT1.STATE.UT.US>, identifies no public water supply wells within the one-quarter (1/4) mile Area of review (AOR) around the NBU No. 47N2; nor are there any public water supply wells within the 4-square township block around the subject well.

Technical Publication No. 92; State of Utah Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) approximately 3594 feet in the basal Green River Formation.

There is no control within the 4-square township block around the NBU No. 47N2 from which to determine the Total Dissolved Solids (TDS) value of an Upper Wasatch interval correlative to the proposed 4590 feet to 5286 feet injection interval in the NBU No. 47N2. A review of oil/gas wells in the 4-square township block does not identify any well where the base of the USDW is within the NBU No. 47N2 injection interval.

APPENDIX B...TESTS...The Total Dissolved Solids (TDS) content of the proposed authorized injection interval, 4590 feet - 5268 feet, is not known. There is no control within a 4-square township block around the NBU No. 47N2 from which to acquire a TDS of the proposed injection interval. The operator will be required to submit an analysis of water from the authorized interval 4590 feet to 5286 feet prior to receiving authorization to inject. If the requisite water analysis identifies a TDS less than 10,000 mg/l the EPA will issue an Aquifer Exemption for the gross Upper Wasatch proposed injection interval 4590 feet - 5286 feet for an area one-quarter (1/4) mile around the proposed NBU No. 47N2.

**TABLE 2.4**  
**UNDERGROUND SOURCES OF DRINKING WATER (USDW)**  
**NBU 47N2**

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta and Green River	The lower 600 to 800 feet of the Uinta Formation, composed of lenticular fluvial sandstone with interbedded varicolored shale overlies Green River Formation lacustrine sand, limestone and shale.	0.00	3,594.00	< 10,000.00

### PART III. Well Construction (40 CFR 146.22)

The former Wasatch/Mesaverde Formations oil well will be converted to a salt water disposal (SWD) well with injection into the proposed Upper Wasatch interval 4590 feet to 5268 feet. The interval will be selectively perforated upon conversion.

9-5/8 inch surface casing was set at 220 feet in a 12-1/4 inch hole and cemented with 220 sacks of Class "G" which was circulated to the surface.

4-1/2 inch production casing was set in a 7-7/8 inch hole at a depth of 6626 feet. The production string was cemented with 2800 sacks of 50/50 Pozmix. Operator picked the top of cement at 320 feet by Cement bond Log (CBL). (CBL dated November 18, 1996).

The EPA calculated the interval of 80% bond index cement bond as 3000 feet to CBL total depth at 4927 feet. (CBL dated March 24, 2003).

The operator will use 2-3/8 inch tubing with the packer set no more than 100 feet above the top perforation.

Driller TD: 7100 feet.

Plug Back TD: 6557 feet.

**TABLE 3.1**  
**WELL CONSTRUCTION REQUIREMENTS**  
**NBU 47N2**

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Tubing	4.50	2.38	0.00 - 4,560.00	-
Production	7.88	4.50	0.00 - 6,626.00	320.00 - 6,557.00
Surface	12.25	9.63	0.00 - 220.00	0.00 - 220.00

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be

binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

### **Casing and Cementing (TABLE 3.1)**

The construction plan for the well or wells proposed for conversion to an injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction and conversion details for the well or wells are shown in TABLE 3.1.

An EPA analysis of the March 24, 2003, CBL of the NBU No. 47N2 identified 80% bond index cement bond from 3000 feet to CBL TD at 4927 feet. The confining interval is 4126 feet to 4590 feet. The authorized injection interval is 4590 feet to 5268 feet. This annulus cement bond appears adequate to preclude vertical migration of injectate outside of the authorized gross injection interval. No remedial cementing is required prior to authorization to inject.

### **Tubing and Packer**

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

### **Tubing-Casing Annulus (TCA)**

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under the conditions of the Permit

### **Monitoring Devices**

The permittee will be required to install and maintain wellhead equipment allowing for monitoring pressures and providing access for sampling the injected fluid. This equipment includes: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) pressure gauges attached to the injection tubing and the TCA to monitor the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

## **PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)**

**TABLE 4.1**  
**AOR AND CORRECTIVE ACTION**

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
NBU 47N2	Injector	No	7,100.00	320.00	Yes

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

There are no wells within the one-quarter mile Area-of-Review around the NBU 47N2.

The permittee will cement squeeze all existing NBU 47N2 Wasatch and Mesaverde perforations gross 5734 feet - 6493 feet during conversion of this well to a salt water disposal well.

#### **Area Of Review**

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

#### **Corrective Action Plan**

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

TABLE 4.1 lists the wells in the AOR, and shows the well type, operating status, depth, top of casing cement and whether a CAP is required for this well.

## **PART V. Well Operation Requirements (40 CFR 146.23)**

**TABLE 5.1**  
**INJECTION ZONE PRESSURES**  
**NBU 47N2**

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Wasatch	4,590.00	0.800	1,635

#### Approved Injection Fluid

The approved injection fluid is limited to fluids which meet requirements pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are not approved.

#### Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit,

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)  
fg = fracture gradient (from submitted data or tests)  
sg = specific gravity (of injected fluid)  
d = depth to top of injection zone (or top perforation)

#### Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

A correlative Upper Wasatch proposed injection interval, 4590 feet to 5268 feet, does not serve as a source of drinking water in any well location within the 4-square township area (T10 - 11S, R21 - 22E) around the NBU No. 47N2. Since no water analysis is apparently extant for the correlative proposed injection interval within the 4-square township area, the EPA shall require the permittee to obtain and analyze fluid from the proposed injection interval during well conversion and prior to receiving authorization to commence injection.

The results of the required analysis of the injection interval fluid will determine if the EPA designates the interval 4590 feet - 5268 feet an Underground Source of Drinking Water (USDW), and calculates total volume of fluid to be injected.

#### **Mechanical Integrity (40 CFR 146.8)**

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependant upon well-specific conditions as explained below:

Well construction/conversion and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

**PART I MI - Internal MI** will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place once every five (5) years. A demonstration of Part I MIT is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MIT may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, whichever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

**Part II MIT - Cement records** for this well show that adequate cement exists behind pipe, i.e., the Confining Interval. The CBL confirms that this cement meets or exceeds minimum requirements needed to demonstrate zone isolation (at least 15 feet of continuous 80% bond, or better) through the Confining Zone. The CBL for this well shows 80% bond from 3000 feet to CBL TD at 4927 which includes the Confining Zone 4126 feet to 4590 feet. Further testing for Part II MI will not be required.

## **PART VI. Monitoring, Recordkeeping and Reporting Requirements**

### **Injection Well Monitoring Program**

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, injection flow rate and cumulative fluid volume, and the maximum and average value for each must be determined for each month. This information is required to be reported annually as part of the Annual Report to the Director.

## **PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)**

### **Plugging and Abandonment Plan**

Prior to abandonment, the well or wells must be plugged with cement in a manner which will not allow the movement of fluids either into or between USDWs. The plugging and abandonment plan is described in Appendix E of the Permit.

All cement plugs will be set with tubing.

9.2 plugging gel, or fresh water weighted with bentonite or treated brine will be placed between all cement plugs.

PLUG NO. 1: Wasatch-Mesaverde production perforations 5734 feet through 6493 feet were cement squeezed during conversion of the NBU No. 47N2 to a salt water disposal well. Cast iron cement retainer (CICR) set at 5700 feet with 60 sacks of Class "G" below the CICR, and capped with two sacks of Class "G".

PLUG NO. 2: Set CICR approximately 4575 feet with approximately 53 sacks of Class "G" below the CICR, and 2 sacks on top of the CICR. Plug will be across gross authorized injection interval of 4590 feet through 5268 feet.

PLUG NO. 3: Set cast iron bridge plug (CIBP) approximately 4205 feet. Set 8 sacks of Class "G" on top of CIBP (4105 feet to 4205 feet). Plug set across Wasatch top at 4155 feet.

PLUG NO. 4: Set CIBP at 3644 feet, capped with 8 sacks of Class "G" cement (3544 feet through 3644 feet). Base of USDW at 3594 feet.

PLUG NO. 5: Set CIBP at 1944 feet, capped with 8 sacks of Class "G" cement (1844 feet through 1944 feet). Top of Green River Formation at 1894 feet.

PLUG NO. 6: Perforate at 300 feet. Circulate cement to surface on backside of 4-1/2 inch casing. Circulate cement to surface inside of 4-1/2 inch casing.

## **PART VIII. Financial Responsibility (40 CFR 144.52)**

### **Demonstration of Financial Responsibility**

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Surety Bond, received April 20, 2004

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

United States Environmental Protection Agency  
Washington, DC 20460



# Application To Transfer Permit

Name and Address of Existing Permittee

Name and Address of Surface Owner

Locate Well and Outline Unit on  
Section Plat- 640 Acres.

N															
S															

W E

State

County

Permit Number

Surface Location Description

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ft. from (N/S) Line of quarter section  
and ft. from (E/W) Line of quarter section.

Well Activity

Well Status

Type of Permit

Class I

Operating

Individual

Class II

Modification/Conversion

Area

Brine Disposal

Proposed

Number of Wells

Enhanced Recovery

Hydrocarbon Storage

Class III

Other

Lease Number

Well Number

Name(s) and Address(es) of New Owners(s)

Name and Address of New Operator

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed





# ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF SURFACE OWNER

STATE

**COUNTY**

**PERMIT NUMBER**

**SURFACE LOCATION DESCRIPTION**

SURFACE LOCATION DESCRIPTION  
 1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface  
Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

## WELL ACTIVITY

**TYPE OF PERMIT**

☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

☐ Individual

**Area**

Number of Wells \_\_\_\_\_

**Lease Name**

Well Number

## INJECTION PRESSURE

**TOTAL VOLUME INJECTED**

**TUBING — CASING ANNULUS PRESSURE  
(OPTIONAL MONITORING)**

[illegible]

## CERTIFICATION

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).*

NAME AND OFFICIAL TITLE (Please type or print)

**SIGNATURE**

**DATE SIGNED**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460**WELL REWORK RECORD**

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface  
Location ft. from (N/S) Line of quarter section

and ft. from (E/W) Line of quarter section

**WELL ACTIVITY**

- ☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

**TYPE OF PERMIT**

- ☐ Individual  
☐ Area  
 Number of Wells

Well Number

**WELL CASING RECORD — BEFORE REWORK**

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

**WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)**

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY**WIRE LINE LOGS, LIST EACH TYPE**

Log Types

Logged Intervals

**CERTIFICATION**

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).*

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED



## PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF

1/4 OF

1/4 SECTION

TOWNSHIP

RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location \_\_\_\_\_ ft. from (N/S) \_\_\_\_\_ Line of quarter section

and \_\_\_\_\_ ft. from (E/W) \_\_\_\_\_ Line of quarter section

TYPE OF AUTHORIZATION

☐ Individual Permit☐ Area Permit☐ Rule

Number of Wells \_\_\_\_\_

Lessee Name

Describe in detail the manner in which the fluid was placed  
the method used in introducing it into the hole

## CASING AND TUBING RECORD AFTER PLUGGING

WELL ACTIVITY

METHOD OF EMPLACEMENT OF CEMENT PLUG:

☐ CLASS I☐ CLASS II☐ Brine Disposal☐ Enhanced Recovery☐ Hydrocarbon Storage☐ CLASS III☐ The Balance Method☐ The Grout Seal Method☐ The Two-Plug Method☐ Other

## CEMENTING TO PLUG AND ABANDON DATA:

PLUG #1

PLUG #2

PLUG #3

PLUG #4

PLUG #5

PLUG #6

PLUG #7

Size of Hole or Pipe in which Plug Will Be Placed (inches)

Depth to Bottom of Tubing or Drill Pipe (ft.)

Bags of Cement To Be Used (each plug)

Slurry Volume To Be Pumped (cu. ft.)

Calculated Top of Plug (ft.)

Measured Top of Plug (if tagged ft.)

Slurry Wt. (Lb./Gal.)

Type Cement or Other Material (Class III)

## LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From

To

From

To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

## CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 35  
Procedures to follow when excessive annular pressure is  
observed on a well.

FROM: Tom Pike, Chief  
UIC Direct Implementation Section

TO: All Section Staff  
Montana Operations Office

The following procedure is intended as an aid to UIC field inspectors when they encounter excessive annular pressure on a well. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

Usually, annular pressure is a direct indication of a loss of mechanical integrity. In some instances, recurring annular pressure may be caused by fluctuations in the temperature of the injected fluid. These temperature fluctuations may cause the annular pressure to increase when a hot fluid is being injected and decrease as the temperature of the injected fluid cools. The presence of temperature-induced pressure on the annulus does not indicate a malfunction in the casing/tubing/packer system and is not considered a loss of mechanical integrity. Wells exhibiting recurring temperature-induced annular pressure may be allowed to continue injecting if a temperature monitoring program is approved and followed.

This guidance was written to help determine the cause of annular pressure. When the procedures in this guidance are followed, any major mechanical integrity problems (a breach in the casing/tubing/packer system) will become apparent quickly. A quick determination will allow the operator to begin follow-up procedures immediately to prevent contamination to USDWs.

Use Section Guidance No. 35 to determine if the well has experienced a loss of mechanical integrity. If you find that there is a loss of mechanical integrity, use Headquarters Guidance No. 76. - *Follow-up to loss of Mechanical Integrity for Class II Wells* to bring the well back into compliance. The use of Section Guidance No. 35 is not to be confused with, nor does it supersede any provision of Headquarters Guidance No. 76. Instead, the two guidance documents are meant to work together to identify and to remedy any potential mechanical integrity failure.

A flowchart for Section Guidance No. 35 is included for quick reference in the field.

DOES PRESSURE  
RETURN TO THE  
ANNULUS AFTER 15  
MINUTES?

YES

NO

On your inspection form, note the annulus and tubing pressures recorded after 15 minutes.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

DOES PRESSURE  
RETURN TO THE  
ANNULUS WITHIN  
14 DAYS?

YES

NO

EPA Technical Expert will design a proper Mechanical Integrity test.

Compliance officer will require the operator to conduct the test within 14 days.

The well is considered to have mechanical integrity.

END PROCEDURE.

DOES THE WELL  
PASS THE MIT?

YES

NO

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

# 14-DAY PRESSURE MONITORING

Please use this form to report data for a 14-day period after pressure is bled from the tubing-casing annulus. Please telephone EPA in Denver as soon as possible when/if pressure returns to the annulus. This data will be used to determine the cause(s) of recurrent annular pressure.

NOTE: DO NOT BLEED PRESSURE FROM ANNULUS DURING THE 14-DAY MONITORING PERIOD.

	DATE	TIME	ANNULUS PRESSURE (psi)	TUBING PRESSURE (psi)	WELL INJECTING (YES/NO)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

WELL NAME: \_\_\_\_\_

ATOR: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_



## OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES

- 1) IMMEDIATELY - Cease injection and shut-in the well as rapidly as feasible. In no case shall the well remain in operation beyond 48 hours unless Tom Pike, Chief, Underground Injection Control Implementation (UIC-I) Section [(303) 293-1544] allows for temporary operation of the well.
- 2) WITHIN 24 HOURS - Verbally notify the UIC-I Section Chief of MIT failure even in cases where the failure is detected during a test which was witnessed by a UIC inspector.
- 3) WITHIN 5 DAYS - Submit a written follow-up report documenting test results, remediation taken or a proposed remediation plan and any limits established by the Director on appropriate volume or time for continued injection operation.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39  
Pressure testing injection wells for Part I (internal)  
Mechanical Integrity

FROM: Tom Pike, Chief  
UIC Direct Implementation Section

TO: All Section Staff  
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f) (2) and 40 CFR 144.51 (q) (1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which



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would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

### Pressure Test Description

#### Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter



depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

#### Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

#### Test Criteria

1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

#### Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording



chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

### Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.
2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the



well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.
10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.



15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

#### Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment



# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Test conducted by: \_\_\_\_\_

Others present: \_\_\_\_\_

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: _____ T _____ N/S R _____ E/W	County: _____ State: _____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☐ Yes ☐ No

Initial test for permit? ☐ Yes ☐ No

Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ Yes ☐ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
<b>RESULT</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

**OFFICE USE ONLY - COMPLIANCE FOLLOWUP**

Staff \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Do you agree with the reported test results?    ☐ YES    ☐ NO

If not, why? \_\_\_\_\_

Possible violation identified?    ☐ YES    ☐ NO

If YES, what \_\_\_\_\_

If YES - followup initiated?    ☐ YES \_\_\_\_\_

☐ NO - why not? \_\_\_\_\_

**[ ] Hardcopy Filing**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
<http://www.epa.gov/region08>

SEP 29 2005

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Carroll Estes  
Principal Environmental Specialist  
Westport Oil & Gas Company, L.P.  
1368 South 1200 East  
Vernal, UT 84078

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

REF: UNDERGROUND INJECTION CONTROL (UIC)  
**Authority to Commence Injection**  
**Well Permit No. UT20972-06389**  
**NBU 47N2 SWD**  
Uintah County, Utah

Dear Mr. Estes:

Westport Oil & Gas Company, L.P. (Westport) has satisfactorily fulfilled all the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements in the Well Permit UT20972-6389 (Effective March 24, 2005). Prior to Injection Requirements, i.e., Part I (Internal) Mechanical Integrity Test, Well Rework Record, pore pressure, and cement squeeze of certain Wasatch and Mesaverde perforations were reviewed and approved by the EPA on September 6, 2005.

Westport, as of the date of this letter, is authorized to commence injection into the NBU No. 47N2 SWD. There will be no limitation on the number of barrels of water that will be injected into the Wasatch Formation interval 4590 feet to 5268. Until such time that the permittee demonstrates through a Step-Rate Injectivity Test that the fracture gradient is other than 0.800 psi/ft, the NBU No. 47N2 SWD shall be operated at a **maximum allowable injection pressure no greater than 1635 psig.**

As of this approval, responsibility for Permit compliance and enforcement is transferred to the Region VIII UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well:

**RECEIVED**

**OCT 03 2005**

DIV. OF OIL, GAS & MINING



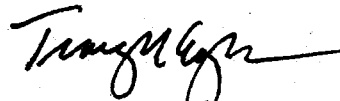
Printed on Recycled Paper



Mr. Nathan Wiser  
Technical Enforcement Program - UIC  
U.S. EPA Region VIII: Mail Code 8ENF-UFO  
999-18th Street - Suite 300  
Denver, CO 80202-2466  
Phone: 303-312-6211, or 1.800.227.8917 (Ext. 6211)

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of Permit UT2097-06389. If you have any questions in regard to the above action, please contact Dan Jackson at 303-312-6155 in the Denver area, or 1.800.227.8917 (Ext. 6155).

Sincerely,



Tracy M. Eagle  
Director  
Ground Water Program

cc: Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Elaine Willie  
Environmental Coordinator  
Ute Indian Tribe

Chester Mills  
Superintendent  
Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

Mike Guinn  
Vice President - Operations  
Newfield Production Company  
Myton, UT 84052

Gil Hunt  
Technical Services Manager  
State of Utah - Natural Resources

Matt Baker  
Petroleum Engineer  
Bureau of Land Management  
Vernal District

Nathan Wiser  
8ENF-UFO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY L.P.

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SESW SECTION 30-T10S-R22E 818'FSL & 854'FWL

5. Lease Serial No.

U-0132568-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NATURAL BUTTES UNIT

8. Well Name and No.

NBU 47N2

9. API Well No.

43-047-30534

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off             |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity             |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other INJECTION |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | START-UP  |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE OPERATOR HAS STARTED THE INJECTION PROCESS FOR THE SUBJECT WELL LOCATION.  
THE INJECTION WAS STARTED ON 10/11/05 AT 5:00 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Sheila Upchegg

Signature

Title

Regulatory Analyst

Date

October 12, 2005

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED

OCT 19 2005

DIV. OF OIL, GAS & MINING

WESTPORT OIL & GAS COMPANY, LP  
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

NBU #47N2

Page 1

NATURAL BUTTES UNIT  
UINTAH COUNTY, UTAH  
Section 30, T10S-R22E  
WI: 60.0% COGC AFE:

WORKOVER/RECOMPLETION

- 06/16/05      PROG: 7:00 AM HELD SAFETY MEETING. ROAD RIG FROM NBU 1022-16E TO NBU 47N2. SPOT EQUIPMENT RU RIG BLEED WL OFF FLWD BACK + OR - 5 BBLs. ND WH NU BOP'S POOH W/2-3/8 J-55 TBG @ 157 JTS OUT 4,945' HEAVY SCALE POOH LD 27 JTS TOTAL JT COUNT 184. PU 3-7/8" MILL & SUB RIH W/157 JTS TAG SCALE @ 4,977' CO FELL THROUGH. RIH TO 5891', CIRC WL CLEAN. POOH W/30 JTS, EOT @ 4946' SWI SDFN 5:30 PM.
- 06/17/05      PROG: 7:00 AM HELD SAFETY MEETING. POOH W/2-3/8" J-55 TBG. MIRU CUTTERS TO SET A CICR. RIH W/CICR SET @ 5,690' POOH W/WIRE LINE RDMO CUTTERS. MIRU SCHLUMBERGER TO SQUEEZE. PU STINGER & RIH W/180 JTS OF 2-3/8" J-55 TBG DROP BALL TO PRESS TEST TBG TEST TBG TO 2500# GOOD TEST. RU RIG PMP REVERSE CICR BALL OUT OF TBG STING INTO CICR GET AN INJECTION TEST OF 1 BPM @ 1800#. MIX 100 SKS 20 BBLs CLASS G CMT @ 15.8 PPG YD 1.15 CU/SK H2O 4.97 GAL/SK PMP 14 BBLs CMT THROUGH CICR HAD A SQUEEZE PRESS OF 2000# UNSTING PU 30' LEAVING 2 SKS ON TOP OF CICR CIRC TBG CLEAN TOH & LD OLD TBG 80 JTS EOT 3,170' SWI SDFN 5:00 PM.
- 06/20/05      PROG: 7:00 AM, HELD SAFETY MEETING. OPEN WL. FINISH POOH, W/2-3/8 TBG. PU 4-1/2 RBP. RIH W/NEW N-80 2-3/8" TBG, 155 JTS SET RBP @ 4924'. ND BOP & TBG SPOOL, NU NEW TBG SPOOL & BOP, KILL WL & PRESS TEST TO 7500#, PRESS TEST HELD, UNSEAT RBP @ 4924'. SWI, SDFW. 6:00 PM.
- 06/21/05      PROG: 7:00 AM HELD SAFETY MEETING. SIWP: 100#. POOH W/2-3/8" N-80 TBG. MIRU CUTTERS TO PERF. RIH W/3-3/8 EXP GUN 23 GRM .35 HOLES & PERF 5235'-5245' 4SPF 90 DEG PHASING 5176'-5186' 4SPF 90 DEG PHASING, & 5,100'-5104' 3SPF 120 DEG PHASING 92 HOLES. RDMO CUTTERS, PU 4-1/2" RBP & PACKER & RIH W/2-3/8" N-80 TBG 166 JTS SET RBP @ 5282' SET PACKER @ 5275' TEST TOOLS TO 1,000# TOOLS HOLDING. POOH W/2 JTS SET PACKER @ 5208' BRK PERFS @ 5235'-5245' @ 2,300# @ 1.3 BPM RU SWAB EQUIPMENT & START SWABING. AFTER 24 BBLs OF TBG & CSG VOLUME THERE WAS NO FLW OF FLUID, MOVE TOOLS, ISOLATE PERFS 4972'-5186'. RU SWAB EQUIPMENT & SWAB TBG & CSG VOLUME: 23 BBLs AFTER SWABING 27 BBLs WATER TESTED @ 11,000 TDS AFTER 35 BBLs 10,900 TDS AFTER 43 BBLs 10,900 TDS. MOVE TOOLS ISOLATE 5176'-5186' BRK @ 1700# PMP 1.3 BPM @ 1500#. MOVE TOOLS ISOLATE 5100'-5104' BRK @ 4000# PMP 1.0 BPM @ 2200#. MOVE TOOLS POOH W/5 STD EOT @ 4710' SWI SDFN 6:30 PM.
- 06/22/05      PROG: 7:00 AM HELD SAFETY MEETING. MIRU SCHLUMBERGER & CUTTERS TO FRAC & PERF. POOH W/2-3/8" N-80 TBG PACKER & RBP. ND BOP'S NU FRAC VALVES  
  
STAGE 1: PRESS TEST SURFACE LINES TO 6,244#, BRK 2119#, ISIP: 1244#, FG: .68 PMP

94 BBLS @ 47.1 BPM @ 3320# = 83 OF 95 HOLES OPEN, MP: 4413#, MR: 50 BPM, AP: 3837#, AR: 48 BPM, ISIP: 2224#, FG: .91, NPI: 980#, 1538 BBLS YF 120 ST+, 321,000 # 20/40 SD.

STAGE 2: RIH W/3-3/8" EXP GUNS 23 GRM .35 HOLES & 5K CBP SET 5K BAKER CBP @ 4,880' & PERF 4840-4848 4SPF 90 DEG, 4778 -4788 4SPF 90 DEG, 4690-4700 2SPF 180 DEG BRK 2167#, ISIP: 955#, FG: .64 PMP 19 BBLS @ 52.4 BPM @ 2970# = 82 OF 95 HOLES OPEN, MP: 3562#, MR: 52.6 BPM, AP: 2867#, AR: 48.8 BPM, ISIP: 2080#, FG: .87, NPI: 1125#, 991 BBLS YF 118 ST+, 214,840 # 20/40 SD.

KILL PLG. RIH W/5K BAKER CBP & SET @ 4640' RDMO SCHLUMBERGER & CUTTERS ND FRAC VALVES NU BOP'S SWI, SDFN 5:00 PM.

- 06/23/05      PROG: 7:00 AM HELD SAFETY MEETING. RIH W/2-3/8" N-80 TBG TO 4,870'. RU PWR SWVL, RU RIG PMP BRK CIRC. C/O 8' OF SD DRL 1ST PLG IN 15 MIN 500# INCREASE, RIH. C/O 30' OF SD DRL 2ND PLG IN 17 MIN 300# INCREASE, RIH. C/O 344' OF SD CIRC HOLE CLEAN WL FLWG @ 1.5 BPM. RD PWR SWVL POOH LD 28 JTS 2-3/8" TBG POOH SB 153 JTS TBG, PU 6' PUP RETRIEVABLE ARROW PACKER W/PROFILE NIPPLE 1.87 ID, ON/OFF TOOL & NEW 2-3/8" N-80 4.7# TBG TIH TO 4,630' PMP 60 BBLS PACKER FLUID SET PACKER W/10,000# PACKER RUBBERS @ 4620' EOT @ 4630'. SWI SDFN 8:00 PM.
- 07/26/05      PROG: 7:00 AM. OPEN WL 0#. RU WEATHERFORD. RIH W/FREEPOINT. SET DN @ 4255'. FREEPOINT @ 4250'. 100% FREE. POOH, PU CHEM CUTTER. RIH CUT TBG @ 4230". POOH W/133 JTS 2-3/8" TBG & 3 FT CUT PIECE. PU OUTSIDE CUTTER, 2 JTS 3-3/4" WASHPIPE, 7' EXTENTION, XO, RIH W/2-3/8" TBG. EOT @ 3800'. SWI 4:00 PM.
- 07/27/05      PROG: 7:00 AM. OPEN WL 0#. FINISH RIH. WASH OVER FISH. ATTEMPT TO MAKE OUTSIDE CUT @ 4304. UNABLE TO MAKE CUT. POOH W/2-3/8" TBG, WASHPIPE & CUTTER. KNIFES BROKE OFF CUTTER. PU NEW CUTTER. RIH W/TBG. WASH OVER FISH. ATTEMPT TO MAKE CUT @ 4335'. OUTSIDE CUTTER WOULD NOT CUT. POOH W/2-3/8" TBG WASHPIPE & CUTTER. KNIFE BROKE OFF. SWI 5:00 PM.
- 07/28/05      PROG: 7:00 AM OPEN WL. 0#. PU 3-3/4' SHOE, 4 JTS WASHPIPE. RIH W/2-3/8" TBG. WASH OVER FISH TO 4368'. CIRC WL CLEAN. RD SWIVEL. POOH W/5 STDs. WL STARTED FLWG. UNABLE TO KILL W/2% KCL. CALL OUT 10 PD BRINE & KILL WL. POOH W/2-3/8" TBG, WASHPIPE & SHOE. PU NEW EXTERNAL CUTTER & 4 JTS WASHPIPE. RIH W/2-3/8" TBG. GOT TO 1700" FT. WL STARTED FLWG. FLWD WL TO TANK & DIED. RIH W/2-3/8" TBG TO 3900'. TURN WL OVER TO FLW TESTERS.
- 07/29/05      PROG: 7:00 AM OPEN WL 0#. RIH WASH OVER FISH. MAKE OUTSIDE CUT @ 4365'. WL STARTED FLWG. FLWD WL FROM 8:00 AM TO 11:30 AM. REC 400 BBLS WATER. PMP 60 BBLS BRINE & KILLED WL. POOH W/2-3/8" TBG. GOT TO SURFACE W/TOOLS. PMPD 60 BBLS BRINE NO PRESS. POOH W/WASHPIPE 4 JTS 2-3/8" TBG & EXTERNAL CUTTER. (TBG PLUG STUCK IN JT). PU 3-3/4" OVERSHOT W/2-3/8" GRAPPEL. RIH W/2-3/8 TBG. EOT @ 3400'. SWI 5:30 PM.
- 08/01/05      PROG: 7:00 AM OPEN WL, FINISH RIH W/2-3/8" TBG. LATCH ONTO FISH @ 4365'. WORK TBG. UNABLE TO GET PKR UNSET @ 4620'. RU WIRELINE, RIH W/FREEPOINT TOOL. FOUND TBG TO BE 90% FREE ABOVE PKR. RIH CUT IN TOP END OF JT ABOVE PKR @ 4590'. POOH W/2-3/8" TBG, OVERSHOT W/FISH. ( CUT JT, 6 FULL JTS & 2 FT CUT PIECE). PU WASHPIPE SHOE, 1JT 3-3/4" WASHPIPE, 6' EXTENTION, TOP SUB & TBG JAR. RIH W/2-3/8" TBG. EOT @ 3800'. SWI 5:30 PM.
- 08/02/05      PROG: 7:00 AM OPEN WL 0#. RIH W/2-3/8" TBG. BROKE CONV CIR W/FOAM UNIT. WASH OVER FISH. 11 FT HARD DRLG ONTOP ON-OFF TOOL @ 4617'. CIR CLEAN. PMP

70 BBLS KCL. RD DRL EQUIP. POOH W/2-3/8" TBG, WASHPIPE & SHOE. SHOE WORE OUT. PU NEW SHOE, 1 JT WASHPIPE, JAR & BUMPER SUB RIH W/2-3/8" TBG. EOT 3800. SWI 5:00 PM.

08/03/05      PROG: 400# ON WL BLOW DN. RIH TAG @ 4617', RU DRILG EQUIP, BRK CIRC W/FOAM UNIT, MILL UP JUNK ON TOP PKR W/WASH SHOE WASH OVER 6" CIRC CLEAN, POOH. SHOE WORE OUT. PU OVER SHOT-JARS-BS-4-DC. RIH LATCH FISH TRY TO REL ON OFF TOOLS PRK REL. POOH. EOT 4000'.

08/04/05      PROG: WL FLWG, KILL W/70 BBL 10# BRINE. POOH. LD FISH & ALL FISHING TOOLS. PU BIT. RIH TAG @ 5540' 150'. FILL ON CBP POOH TO 4680', SDFN.

08/05/05      PROG: RIH TAG @ 5540' RU FOAM UNIT & DRLG EQUIP. DRL OUT 150" SD TO 5690' CIRC 1HR KILL WL W/10# BRINE POOH. LD BIT. PU 6' PUP RETRIEVABLE PKR ON/OFF TOOL PROFILE, NIPPLE SLM, RIH. EOT 4630' SDFN.

08/08/05      PROG: DISP CSG W/PRK FLUID SET ARROW SET 1 PKR @ 4611' W/10,000 TENS EOT 4621.14. ND BOP, NU TREE. TEST CSG TO 1000# FOR 30 MIN. NO LOST, GOOD TEST. RIG DN, MOVE.

TBG DETAIL

KB	15.00
HANGER	1.00
145 JTS 2,3/8 N-80 TBG	4591.06
ON/OFF TOOL& PKR	7.88
1 TBG PUP	6.20
EOT	4621.14
PACK RUBBER	4611.76

08/09/05      PROG: 9:00 AM RU QUICK TEST TO CSG. PRESS TO 1050# & CHART FOR 1 HR. NO PRESS BLEED OFF.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ
2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**1/6/2006**

<b>FROM: (Old Operator):</b> N2115-Westport Oil & Gas Co., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024	<b>TO: ( New Operator):</b> N2995-Kerr-McGee Oil & Gas Onshore, LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024
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WELL NAME	CA No.	Unit:	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
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**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 12/15/2006

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 12/15/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/15/2006
- Bond information entered in RBDMS on: 12/15/2006
- Fee/State wells attached to bond in RBDMS on: 12/16/2006
- Injection Projects to new operator in RBDMS on: \_\_\_\_\_
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: CO1203
- Indian well(s) covered by Bond Number: RLB0005239
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG  
The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

Westport Oil Gas Co LP (N2115) to Kerr-Mcgee Oil Gas Onshore, LP (N2995) sorted by Unit, Lease  
Type API

well_name	sec	twsp	rng	api	entity	lease	well	stat
WELLINGTON FED 44-6 SWD	06	140S	110E	4300730912	13919	Federal	WD	A
WELLINGTON FED 22-04 SWD	04	140S	110E	4300730967	14826	Federal	WD	A
SOUTHMAN CANYON U 3	15	100S	230E	4304715880	99990	Federal	WD	A
OURAY SWD 1	01	090S	210E	4304733449	13274	Fee	WD	A
				NATURAL BUTTES UNIT				
NBU 21-20B	20	090S	200E	4304730359	2900	Federal	WD	A
CIGE 9	36	090S	220E	4304730419	2900	State	WD	A
NBU 159	35	090S	210E	4304731996	2900	State	WD	A
NBU 47N2	30	100S	220E	4304730534	2900	Federal	WI	A
NBU 347	11	100S	220E	4304733709	2900	State	WI	A



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Several-See Attached	API Number
Location of Well	Field or Unit Name Natural Buttes
Footage : _____ County : Uintah	Lease Designation and Number
QQ, Section, Township, Range: _____ State : UTAH	

EFFECTIVE DATE OF TRANSFER: 1/6/2006

CURRENT OPERATOR

Company: Westport Oil and Gas Company *N2115*  
Address: 1368 South 1200 East  
city Vernal state UT zip 84078  
Phone: (435) 789-4433  
Comments: \_\_\_\_\_

Name: Carroll Estes  
Signature: *Carroll Estes*  
Title: Principal Environmental Specialist  
Date: 12/14/2006

NEW OPERATOR

Company: Kerr McGee Oil and Gas Company, LP *N2995*  
Address: 1368 South 1200 East  
city Vernal state UT zip 84078  
Phone: (435) 789-4433  
Comments: \_\_\_\_\_

Name: Carroll Estes  
Signature: *Carroll Estes*  
Title: Staff Environmental Specialist  
Date: 12/14/2006

(This space for State use only)

Transfer approved by: *Dan Jones*  
Title: *UIC Geologist*

Approval Date: *12/20/06*

Comments:

*Only applies to Wellington Fed 44-6  
and Wellington Fed 22-04.  
All other wells are in Indian Country  
and need EPA approval*

RECEIVED

DEC 15 2006

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or reenter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEE ATTACHED**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.

KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

**RECEIVED**

**MAY 10 2006**

DIV. OF OIL, GAS & MINING

**BLM BOND = C01203**

**BIA BOND = RLB0005237**

**APPROVED 5116106**

*Earlene Russell*

**Division of Oil, Gas and Mining**

**Earlene Russell, Engineering Technician**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**RANDY BAYNE**

Signature

*Randy Bayne*

Title

**DRILLING MANAGER**

Date

**May 9, 2006**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY L.P.

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

**APPROVED** 5/16/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

**RECEIVED**  
MAY 10 2006

DIV OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

BRAD LANEY

Signature

Title

ENGINEERING SPECIALIST

Date

May 9, 2006

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

*Brad Laney*

Title

Date

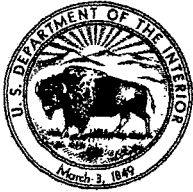
5-9-06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Colorado State Office  
2850 Youngfield Street  
Lakewood, Colorado 80215-7076

IN REPLY REFER TO:

CO922 (MM)  
3106  
COC017387 et. al.

March 23, 2006

### NOTICE

Kerr-McGee Oil & Gas Onshore L.P. :  
1999 Broadway, Suite 3700 : Oil & Gas  
Denver, CO 80202 :

#### Merger/Name Change - Recognized

On February 28, 2006 this office received acceptable evidence of the following mergers and name conversion:

Kerr-McGee Oil & Gas Onshore L.P., a Delaware Limited Partnership, and Kerr-McGee Oil & Gas Onshore LLC, a Delaware Limited Partnership merger with and into Westport Oil and Gas Company L.P., a Delaware Limited Partnership, and subsequent Westport Oil & Gas Company L.P. name conversion to Kerr-McGee Oil & Gas Onshore L.P.

For our purposes the merger and name conversion was effective January 4, 2006, the date the Secretary of State of Delaware authenticated the mergers and name conversion.

Kerr-McGee Oil & Gas Onshore L.P. provided a list of oil and gas leases held by the merging parties with the request that the Bureau of Land Management change all their lease records from the named entities to the new entity, Kerr-McGee Oil & Gas Onshore L.P. In response to this request each state is asked to retrieve their own list of leases in the names of these entities from the Bureau of Land Management's (BLM) automated LR2000 data base.

The oil and gas lease files identified on the list provided by Kerr-McGee Oil & Gas Onshore L.P. have been updated as to the merger and name conversion. We have not abstracted the lease files to determine if the entities affected by the acceptance of these documents holds an interest in the lease, nor have we attempt to identify leases where the entity is the operator on the ground that maintains vested record title or operating rights interests. If additional documentation, for change of operator, is required you will be contacted directly by the appropriate Field Office. The Mineral Management Services (MMS) and other applicable BLM offices were notified of the merger with a copy of this notice

Please contact this office if you identify additional leases where the merging party maintains an interest, under our jurisdiction, and we will document the case files with a copy of this notice. If the leases are under the jurisdiction of another State Office that information will be forwarded to them for their action.

Three riders accompanied the merger/name conversion documents which will add Kerr-McGee Oil and Gas Onshore LLC as a principal to the 3 Kerr-McGee bonds maintained by the Wyoming State Office. These riders will be forward to them for their acceptance.

The Nationwide Oil & Gas Continental Casualty Company Bond #158626364 (BLM Bond #CO1203), maintained by the Colorado State Office, will remain in full force and effect until an assumption rider is accepted by the Wyoming State Office that conditions their Nationwide Safeco bond to accept all outstanding liability on the oil and gas leases attached to the Colorado bond.

If you have questions about this action you may call me at 303.239.3768.

/s/Martha L. Maxwell  
Martha L. Maxwell  
Land Law Examiner  
Fluid Minerals Adjudication

Attachment:

List of OG Leases to each of the following offices:

MMS MRM, MS 357B-1

WY, UT, NM/OK/TX, MT/ND, WY State Offices

CO Field Offices

Wyoming State Office

Rider #1 to Bond WY2357

Rider #2 to Bond WY1865

Rider #3 to Bond WY1127



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>



IN REPLY REFER TO:

3106

(UT-922)

March 27, 2006

### Memorandum

To: Vernal Field Office

From: Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the merger recognized by the Bureau of Land Management, Colorado State Office. We have updated our records to reflect the merger from Westport Oil and Gas Company L.P. into Kerr-McGee Onshore Oil and Gas Company. The merger was approved effective January 4, 2006.

Chief, Branch of  
Fluid Minerals

### Enclosure

Approval letter from BLM COSO (2 pp)

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare  
Dave Mascarenas  
Susan Bauman

RECEIVED

MAR 28 2006

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-0132568A			
<b>1. TYPE OF WELL</b> Water Disposal Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 47N2			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0818 FSL 0854 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 30 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047305340000			
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/24/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input checked="" type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The operator requests authorization to plug and abandon this SWD well. Attached is the proposed plugging procedure. Please contact the undersigned if you have any questions and/or concerns. Thank you.					
<b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> 07/20/2011 <b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Andy Lytle		<b>PHONE NUMBER</b> 720 929-6100			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
		<b>DATE</b> 6/23/2011			



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Sundry Conditions of Approval Well Number 43047305340000**

- 1. A 200' plug shall be balanced across the base of the Parachute Creek member of the Green River from 3100' to 2900' as required by Board Cause No. 190-5(b).**
- 2. Plug # 4 shall be extended to 1700' to isolate the top of the Parachute Creek member with a minimum 200' cement plug as required by Board Cause No. 190-5(b).**



Well Name: **NBU 47N2**  
 Surface Location: SESW SEC. 30, T10S, R22E  
 818' FSL & 854' FWL  
 Uintah County, UT

6/22/2011

API: 4304730534 LEASE#: UTU-0132568-A

ELEVATIONS: 5379' GL 5393' KB

TOTAL DEPTH: 7100' PBTD: 5690' (CICR)

SURFACE CASING: 12 1/4" Hole  
 9 5/8", 36# K-55 @ 220' (GL)

PRODUCTION CASING: 7 7/8" Hole  
 4 1/2", 11.6#, N-80 @ 6626'  
 TOC @ 320' per CBL

PERFORATIONS: Wasatch 4690' - 5245'  
 Wasatch 5734' - 6364' Squeezed & Excluded by CICR  
 Mesaverde 6461' - 6493' Squeezed & Excluded by CICR

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.0217	0.0039
4.5" 11.6# N-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# K-55	8.921	2020	3520	3.247	0.434	0.0773
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.0101
4.5" csg X 9 5/8" 36# csg				2.227	0.2977	0.053
4.5" csg X 7.875 borehole				1.704	0.2276	0.0406
9 5/8" csg X 12 1/4" borehole				2.3436	0.3132	0.0558

<b>Formation</b>	<b>Depth to top, ft.</b>	<b>Tech. Pub. #92 Base of USDW's</b>
Uinta	Surface	USDW Depth ~3594' KBE
Green River	1894'	
Wasatch	4155'	
Mesaverde	6380'	

**NBU 47N2 PLUG & ABANDONMENT PROCEDURE****GENERAL**

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY DIRECTOR OF EPA IN WRITING 45 DAYS PRIOR TO PLUGGING AN INJECTION WELL.
- ALL CEMENT PLUGS TO BE SET WITH TUBING.
- NOTIFY BLM 24 HOURS BEFORE MOVING ON LOCATION.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

**PROCEDURE**

**Note:** This procedure is written according to the Proposed P&A plan attached as Appendix E in the Final UIC Permit for the NBU 47N2 SWD well.

**Note:** An estimated ~79+ sx Class "G" cement needed for procedure

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. **PLUG #1, ISOLATE WASATCH/MESAVERDE PERFORATIONS (5734'-6493'):** PERFS WERE SQUEEZED AND A CIRC WAS SET @ 5690' DURING CONVERSION OF NBU 47N2 TO A SALT WATER DISPOSAL WELL IN 2005.
3. **PLUG #2, ISOLATE EXISTING WASATCH PERFORATIONS (4690' - 5245'):** PU & RIH W/ 4 ½" CIRC, SET @ ~4575'. RIH W/ TBG & STING INTO CIRC & SQUEEZE PERFS W/ APPROXIMATELY **53 SX / 10.8 BBL / 60.7 CUFT** OR SUFFICIENT VOLUME TO FILL CSG & ANNULUS TO 4590'. STING OUT OF CIRC AND SPOT **2 SX / 0.4 BBL / 2.29 CUFT** CMT ON TOP OF CIRC. BRK CIRC W/ FRESH WATER. POOH ABOVE TOC (~4540'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
4. **PLUG #3, PROTECT TOP OF WASATCH (4155'):** POOH. PU & RIH W/ 4 ½" CIBP, SET @ ~4205'. SPOT **8 SX / 1.6 BBL / 9.2 CUFT** CMT ON TOP OF CIBP. BRK CIRC W/ FRESH WATER. POOH ABOVE TOC (~4105'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. **PLUG #4, PROTECT BASE OF USDW (~3594'):** POOH. PU & RIH W/ 4 ½" CIBP, SET @ ~3644'. SPOT **8 SX / 1.6 BBL / 9.2 CUFT** CMT ON TOP OF CIBP. BRK CIRC W/ FRESH WATER. POOH ABOVE TOC (~3544'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
6. **PLUG #5, PROTECT TOP OF GREEN RIVER (~1894'):** POOH. PU & RIH W/ 4 ½" CIBP, SET @ ~1944'. SPOT **8 SX / 1.6 BBL / 9.2 CUFT** CMT ON TOP OF CIBP. BRK CIRC W/ FRESH WATER. POOH ABOVE TOC (~1844'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
7. **PLUG #6, CEMENT SURFACE CASING SHOE (202' KB) & SURFACE HOLE:** POOH W/ TBG. RIH W/ WIRELINE, PERFORATE @ 300' W/ 4 SPF. POOH W/ WIRELINE. RU CEMENT SERVICE TO PROD CSG. PUMP SUFFICIENT VOLUME TO CIRCULATE CEMENT TO SURFACE INSIDE OF 4 ½" CASING.
8. CUT OFF WELLHEAD AND INSTALL MARKER PER BLM GUIDELINES.
9. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB.

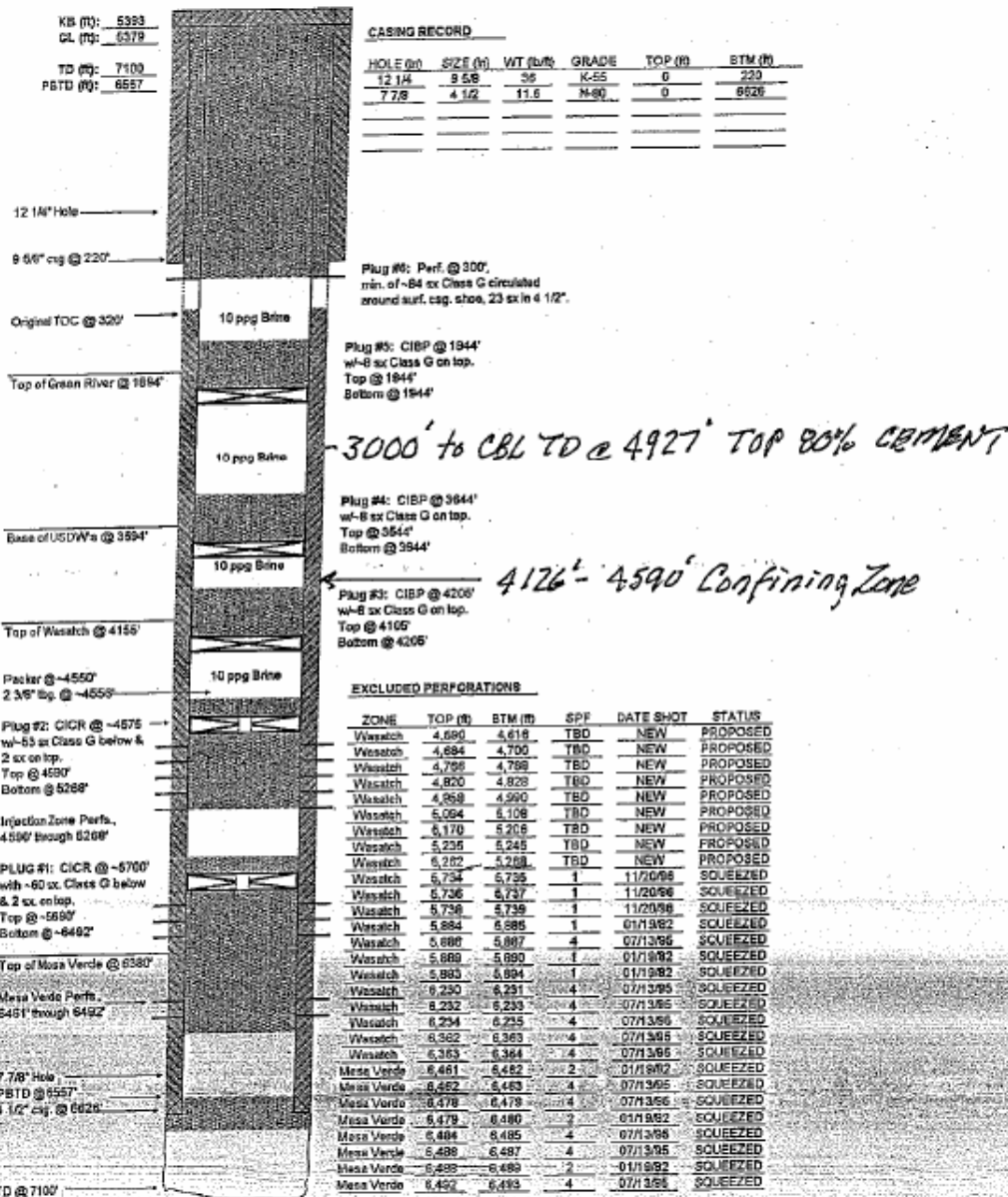
ALM 6/22/11

**RECEIVED** Jun. 23, 2011

W-47N2  
 Sec. 30-T10S-R22E  
 Underground Injection Control  
 Permit Application  
 ATTACHMENT C3

WELL: NBU 47N2 CNTY: UTAH FT.: 018' FSL, 054' FWL  
 FIELD: NATURAL BUTTES Q-Q: 555W  
 API # 43-047-30534 SEC.: 30  
 LEASE #: UTU-0132305A TWS: 10S  
 EPA PERMIT #: ROE: 22E

# PROPOSED P&A WELLBORE DIAGRAM



## APPENDIX E

### PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

All cement plugs will be set with tubing.

9.2 plugging gel, or fresh water weighted with bentonite or treated brine will be placed between all cement plugs.

PLUG NO. 1: Wasatch-Mesaverde production perforations 5734 feet through 6493 feet were cement squeezed during conversion of the NBU No. 47N2 to a salt water disposal well. Cast iron cement retainer (CICR) set at 5700 feet with 60 sacks of Class "G" below the CICR, and capped with two sacks of Class "G".

PLUG NO. 2: Set CICR approximately 4575 feet with approximately 53 sacks of Class "G" below the CICR, and 2 sacks on top of the CICR. Plug will be across gross authorized injection interval of 4590 feet through 5268 feet.

PLUG NO. 3: Set cast iron bridge plug (CIBP) approximately 4205 feet. Set 8 sacks of Class "G" on top of CIBP (4105 feet to 4205 feet). Plug set across Wasatch top at 4155 feet.

PLUG NO. 4: Set CIBP at 3644 feet, capped with 8 sacks of Class "G" cement (3544 feet through 3644 feet). Base of USDW at 3594 feet.

PLUG NO. 5: Set CIBP at 1944 feet, capped with 8 sacks of Class "G" cement (1844 feet through 1944 feet). Top of Green River Formation at 1894 feet.

PLUG NO. 6: Perforate at 300 feet. Circulate cement to surface on backside of 4-1/2 inch casing. Circulate cement to surface inside of 4-1/2 inch casing.

Permit UT20972-06389

E-1

FINAL PERMIT

RECEIVED Jun. 23, 2011

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-0132568A
<b>1. TYPE OF WELL</b> Water Disposal Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 47N2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0818 FSL 0854 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 30 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047305340000
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/11/2011		
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input type="checkbox"/> DRILLING REPORT Report Date:		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  The Operator has concluded the plug and abandonment operations on the subject well. This well was plugged on 10/11/2011. Please see the attached chronological well history for the plugging operation details.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/17/2011	



**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 47N2 SWD					Spud Date:				
Project: UTAH-UINTAH			Site: NBU 47N2 SWD			Rig Name No: WESTERN WELLSITE/UNK			
Event: ABANDONMENT			Start Date: 10/5/2011		End Date: 10/11/2011				
Active Datum: GL @5,379.00ft (above Mean Sea Level)				UWI: NBU 47N2 SWD					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/5/2011	7:00 - 17:00	10.00	ABAND					PREJOB SAFETY MEETING, ROAD EQUIPMENT TO LOCATION, OPEN WELL TO TANK, SIW, SDFN
10/6/2011	7:00 - 17:00	10.00	ABAND					PREJOB SAFETY MEETING, RU, FLOW WELL TO TANK WHILE WO WATER, KILL TUBING WITH 20BLS BRINE WATER, NDWH, NUBOP, RELEASE PACKER, WELL CAME ALIVE AFTER RELEASING PACKER, COULD NOT KILL WELL, MIX AND PUMP 40SXS CLASS G CEMENT PUMP DOWN TUBING AFTER FILLING TUBING WITH CEMENT SHUT IN CASING DISPLACED CEMENT 1BL PAST PACKER AT 4611', SIW, WOC, SDFN
10/7/2011	7:00 - 17:00	10.00	ABAND					WITNESSED BY: RAY ARNOLD BLM PREJOB SAFETY MEETING, TOH AND TALLY, TIH WITH CICR AND SET AT 4560', ZERO RATE UNDER CICR, LOAD HOLE WITH 60BLS PRODUCED WATER WITH CORROSION INHIBITOR +BIOCIDE, PRESSURE TEST TUBING HELD, PRESWSURE TEST CASING TO 800PSI HELD, RU PRS, MIX AND PUMP 45SXS CLASS G CEMENT ON TOP OF CICR, TOH AND TEST TUBING, TIH WITH CIBP AND SET AT 3642', SIW, SDFN
10/10/2011	7:00 - 17:00	10.00	ABAND					WITNESSED BY: RAY ARNOLD BLM PREJOB SAFETY MEETING, MIX AND PUMP 10SXS CLASS G CEMENT ON TOP OF CIBP, TOH, TIH WITH CIBP AND SET AT 1941', MIX AND PUMP 10SXS CLASS G CEMENT, TOH, SIW, SDFN
10/11/2011	7:00 - 17:00	10.00	ABAND					WITNESSED BY: RAY ARNOLD BLM PREJOB SAFETY MEETING, RU WIRE LINE, SHOOT PERFS AT 300', BREAK CIRCULATION TO SURFACE, RD WIRE LINE, RD, NDBOP, NUWH, MIX AND PUMP 110SXS CLASS G CEMENT DOWN PRODUCTION CASING TO SURFACE, DIG OUT WELLHEAD, CUT OFF WELLHEAD, WELD ON INFO PLATE, CLEAN UP LOCATION, MO  Witness was Ray Arnold BLM  215 total sxs cement  887" yellow band 2 3/8" tubing recovered  3663' red band 2 3/8" tubing recovered  Lat: +39.91495  Long:-109.48694